

SEQ ID NO: 1110 GGTACTATTATACTAAAAGCTCCTACTGTGATGTGAAATGCTCATACTTTATA
AGTAATTCTATGCAAAATCATAGCCAAAAGCTAGTATAGAAAATAATACGAAACTTTAAAAAGCAT
TGGAGTGTGAGTATGTTGAATCAGTAGTTTCACTTTAACTGTAAACAATTTCTTAGGACACCATT
GGGCTAGTTTCTGTGTAAGTGTAAATACTACAAAACCTATTATTAATGTTCTTATGTCATTTGTTA
TATTCATAGATTTATATGATGATATGACATCTGGCTAAAAAGAAATTATTGCAAACTAACCACCTA
TGT

SEQ ID NO: 1111 GGTACTACAAGTTTAGTGGCTTCACGCAGAAGTTGGCAGGAGCATGGGCTTC
GGAGGCCTATAGCCCGCAGGGATTAAAGCCTGTGGTTTCCACAGAAGCACCACCTATCATATTTGC
CACACCACTAACTGACCTCCGATTCCACAGTGTATGATTATGCTGGGAAAAACAAAGTTCCAG
AGCTACAAAAGTTTTCAGAAAAGCTGATGGTGTGCCCGTCTACCTGAAACGAGGCCTGCCTGACC
AAATGCTTTACCGGACCACCATGGCGCTGACTGTGGGAGGGACCATCTACTGCCTGATCGCCTCTA
CATGGCTTCGCAACCCAAAAACAAATGAATTANGCTGCAGAGGACTGGTTTGGTTTTTGGCATAA
ACCTTTGAAGTTCCTTTTCATTGGTAAATTAATAATTTTTTTTTTACTTGGATGGCTAACATTTTGCA
AGAAAAATAGGAAGATNTGAAGAAGATGTTTGGTTGNTATGAAANCATATGGNTGNCANACTCA
TTCGACAGTTAAAGCCTTGTTAAAGAACGGNGCCTTGCTTGGGTTGGGCTCNGATTCTGAGGTTG
GATAAGNTTGACCAGCTTGATGTANCTGGTTAGGCCTANGGNTTAGGTGCNTTTGACATGGGC

SEQ ID NO: 1112 CGAGGTACATGCTCTATCTGATGCTCGATGTGTGTTTGACATGGCTGGAGAAA
TTGGCTTACGATGAACATGTTAGACATTGGTGGAGGATTCACGGGAAGTGAATTTCAATTTGGAAG
AGGTTAATCATGTTATCAGCCCTCTGTTGGATATCTACTTTCCCTGAAGGATCTGGTGTAAAGATAAT
TTCAGAACCCGGAAGCTACTATGTGTCTTCTGCATTTACACTCGCAGTTAATATCATAGCAAAGAA
AGTTGTTGAAAATGATAAATTTCCCTCTGGAGTAGAAAAAACCGGAAGTGATGAACCAGCCTTCA
TGTATTATATGAATGATGGTGTATGTTTCTTTTCAAAGTAAACTGTCTGAGGACTTAAATACC
ATTCCAGAGGTTTACAAGAAATACAAAGGAAGATGAACCCTCTGGTTACAAGCAACCTTTGGGGT
CCATNCTGTGATGAACCTTGATCAAATTGTGGAAAAGCTTGCTTCTTCTGANTCTGAATGTNNGG
AAAATTGGCTTATNTTTATACATGGGACCAAATCTTCATGAACCATTTGCTTTTAATGATTTTCAGG
GGCCCCNTTATTAATGATGCATTCANGATGGGGNTAAACCAANTNTGGAATNCTCNACCCATG
TGAAAACCTTTTTTGCCT

SEQ ID NO: 1113 CGAGGACGCGGGATTGCAACAAGAAAAGCCAGATTTCTGCTTTTTGGAAGAA
GATCCTGGAATATGTGCGAGTTATATTACCAGGTATTTTTATAACAATCAGACAAAACAGTGTGAA
CGTTTCAAGTATGGTGGATGCCTGGGCAATATGAACAATTTTGAGACACTGGAAGAATGCAAGAA
CATTTGTGAAGATGGTCCGAATGGTTTCCAGGTGGATAATTATGGAACCCAGCTCAATGCTGTGAA
TAACTCCCTGACTCCGCAATCAACCAAGGTTCCAGCCTTTTTGAATTTACGGTCCCTCATGGTGT
CTCACTCCAGCAGACAGAGGATTGTGTGCTGCCAATGAGAACAGATTCTACTACAATTCAATCATT
GGGAAATGCCGCCCATTTAAGTACCTGCCNNGCNGCCGCTCGA

SEQ ID NO: 1114 NCTTTTAGTAACGACCCAATCTAAGGAGCCTTGGAGGCTTGTGAAAAAGACG
TCCACAAAGATGCTGCATTTCTAGTGTGGGGTGAATTAATACTTCTGTAGAAGGAGGGAAGT
GAATCACCTCAGCATGAATAAACAGCATTTTTCTTTTAAACAGTAACTCATAATCTGATGACTCAC
TTTGCTTTACTAGTTCAAAATTAGGCAGGAGAAGAACTAAGCTAATTGGTCAGACCCAGAAACAC
AAAGATTTGGCAAGCTGCAGTCACTCAGCTCATGATGTGTGATAATCAGCAGAAAGGCTGCTCAA
CTCTTGTCATTCCCTTCACATCTGTAGAGGAGTTCGATATAACCACTTCTTTATCAACTTTAAGC
TGCATACAGGCAAAGAGATCACAACTGCAGGGAGGCCATAATGGTCTGGGGGGAAGTTATGTTT
CTNCTGTAGAAGNGAATTAAGTAATACTTTCTGGGCCTTCTTTTGAACAACCACTTGTCTTNTCAA
AANATACTGGCTGAGGTGNCCATNTNTTTCTGGCAGGACCCATCAGCTGGGTAAAGGACNENAG
AAGNTTATGGGGCTTTAACTNTGTTGCCCTTTTTTAATCCTGGCCGACCCCTAGGNNATTACCCCT
GGGC

SEQ ID NO: 1115 ACGCGGGAGAACTGCGCGAGAAGCGAGACCTTAGAAGGCAGCGCTTCCCGC
GAAGGACCCGGAAGGAGCGCCTACTAAGGACGCGCTCGAGGTCCGGGGCGCTCAACTCTATA
GCTCTAACTGGCTAGAAGTGCCCAACGTGGAATGTTTCTTTTAAAGGCGGCTTTGAAGCGACC
CGGAAGCGGAAGTGAAGAAAGTTCTAGTGGCTTGAGATTAAGCCTGATCAAGATGACAACCTCC
AAAAGCACCCGAGACTTCGTGGCAGAGCCCATGGGGGAGAAACCAAGTGGGGAGCCTGGCTAGGA
TTGGTGAAGTCTGGGCAAGAACTGGAGGAAAGGGGTTTTGACAANGCCTATGTTTGTCTTTG
GCCAAGTTTCTGGTGCTAAAAGAAAGATGAAAGACCTCTTNCNGGAATGGCTGAAAAGACACTTT
GTGGCGCCAACGCCAAGCAATCCCCGGGACTTGTTTNGATGCCTTCNANAGTGGTGCCACCCCTTN
TTTTGATGCTCTNTTGAAGAACTTTTAATCCCAACCCCTATCCANAATTTNAACCAATAGGGACTCT
TCCTTTCTTTACNAAGGNAAAATGTTTTGTNTACTTGGCCGACCCCTAGGGAATTCACCATTTGNG
CCTTTTTGATCCACTTGTC

SEQ ID NO: 1116 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGCGGTCTTA
 AGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTANTAGCTGTGGAGGAAGA
 TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGTCTG
 NCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAACTTGCTGCTGATGAANATGATGAC
 GATGATGATGAAGAGGATGATGATGAATATGATGATGATGATGNTGATTTTGATGATGANGAAANCTG
 AAGAATAAGCTCCANTGAAGAAATCTATACGAGATACTCNGCCTTANATGCTCATAAGTCTATT
 CTNNATGGGAATNGANTCANATCCCATTTTINNCTNCCTTTATCCAAATANGTCNNTNAATCNTT
 CTCTTAANCANNTCTAANNCTCCCTAATNTACCCACATAGGACCCTTNTTCNTNTNGAAATACAT
 TTTAANGCTAATAATNGCATNNCCTGTTTATNTAAATNNGTNGGG

SEQ ID NO: 1117 CGAGGTACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGC
 CACATACTGCCGTCTTGCCAGTTTATTGGAAACCGAAGGGAACTGAATGAGGACAAGCTGGAGA
 AGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTATTCTGGATGCCTCACGGTCCCTCC
 ATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCAGTCGTGTGGTGTCT
 TTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAACCAAGTAGCCCCCACC
 TGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAAC
 CTGGCCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCTGTTCAGAGTCTGA
 AGACAAGGGTACACTCCAAATATGGACTCATTTTCCACTCCACCTTNAATGGCCGACAACCTTGCCA
 AAACAAAGGCCGATNTTCCCATCCTGCAACAATCATATTGCTTACAATCATGGTNTTTAGNGCCA
 CATTTTTGGGAAACTTCANACAATTAACATNGCTTTTANCTGGNAAACCCAANATTGTTNTN

SEQ ID NO: 1118 NCTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTAACTGAAGGG
 CGGAGATCGAAGACTAACAAAGCAAAAACCCTTGCTACATGGGCAACAAAAGAACTGAGGAAAC
 TGAAGAACCAAGCTTGATCTGTTACCATTGGGATGATAACCTGAGGACCCCACTGGAATCTCCC
 ATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGATGCTGAATGTTTGGGAATGAGAGGATG
 AGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCAGCAGCAGCCCGCAGCCCGCCA
 ACAGCAGCGCTGTTAGTTGAGCTAAGTAAAGCACTGCTTCGTAGAAAACCATAACATCGGCCATC
 TTGGAAAAAAGAAAAACAATGGAGTTACTTATTTAAAAAAGAAAGAAAGTTATNCCTTCC
 AGGAAAGNTAGAAGTACTTTTCTNTCTTTTGGCCAATGCCANTGGAATCCTGGTTTGGGGAGGAG
 GAAGGACTNGGTTCACTGGGGNGCTTTGTTGTAAAGGCNCTGGCCTTTNTCTGAGGANAAANNT
 GGANCTGGGTNAAANCNNCTTTTTTNTCTGGCCGACCCCTAGGGNGAATTCACCCCTGGNGGC
 GTTCTTTGGACCACNGT

SEQ ID NO: 1119 ACGACAGCAGACTCCTCCAGGGCTCTGTCCACTTGCAGGAAATTCAGTTCAT
 GAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTTCATGAAACATCTTCATTATAGAATAATT
 GATGTGAGCACTGTAAAGAACTGTGCAGACGCTGGTATCCAGAAGAATATGAATTTGCACCAA
 GAAGGCTGCTTCTCATAGGGCACTTGATGACATTAGTGAAAGCATCAAAGAGCTTCAGTTTACCG
 AAATAACATCTTCAAGAAAAAATAGATGAAAAGAAAGAGGAAAAATTATAGAAAATGGGGAAAT
 GAGAAAACCGTGAGTTGATGCCAGTTATCATGCTGCCACTACATCGTTATCTGGAGGCACCTTCTGG
 TGGGTTTTTTTTCTCACGCTGATGGCTTTGGCAGAACCCCTTCGGTTACTTGCATCTNCAGAATGANTA
 CTCAAGCNGACAGCACACGAAATCTATTTTTCTNCTAATATGCNNGTTCCANTATGACACAACACT
 TCCTTTAAAGTCTNNGGCGCGACCNCNGCTANGGCGAATTCCACNCCCTGGCGGCCGTCTTATGGA
 TCCACTTGGACCAACTTGGGNAACATGGCTACTTGTTCTNGNGAATGGNTCCCTNCAATTCCCCAN
 ATCAACCGN

SEQ ID NO: 1120 NCTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGNNAACTGGAAGAG
 TCTACAATGTTACCCANCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTG
 CCAAGAGAATTAATGTGCGTATTGAGCACATTAAGCACTCTAAGANCCGAGATNGCTTCTTGAAA
 CGTGTGANGGAAAATGATCAGAATAAGANAGANNCTATNANAAAGGTACCTCGGCCGCTCCAC
 GC

SEQ ID NO: 1121 ACGCGGGGCTAGTGGCTTGAGGTATCCGCAGGAGCGGCCGGGTGGCGGGAG
 GAACCGTTACGGGAAGTGAAGTTGCGGATTAAGCCTGATCAAGATGACAACCTCCCAAAAGCACC
 GAGACTTCGTGGCAGAGCCCATGGGGGAGAAAGCCAGTGGGGAGCCTGGCTGGGATTGGTGAAGT
 CCTGGGTAAAGAGCTGGAGGAAAGGGGTTTTGACAAGGCCTATGTTGTCCTTGCCAGTTTCTGGT
 GCTAAAGAAAGATGAAGACCTTCCGGGAATGGCTGAAAGACACTTGTGGCGCCAACGCCAAGC
 AGTCCCGGGACTGCTTCGGATGCCTTCNAGAGTGGTGCAGCGCCTTCTGTGATGCTCTCTGGGAA
 GCTCTCAATCCCCACCCTCATCCAGAGTTTGCAGCCGAGTANGGACTCCTCCCTGTCTCTACGAA
 GAAAAAGATTGCTATTGTGCTACCTTCGGCCGCGACCCCCC

SEQ ID NO: 1122 ACCTTGACTTAAATCCAAGAGCAAAAAGTTAAGACTCTCCTCCTCTATTTTTGG
 TAAACAACCTGCATGGTAAACTTAGATGACTCTTCCCCCTGGATTTTACCTGGGAGTGGCCTTTTTA

CATTTTTATTTAAAAGAGGGCAGGTTTGGCACTTTTATACTGATGTCACCAATGTTAATATTTCTTG
 GGATCTCAGGAAGATTCATATTTCTTTACAGCTGATACAGCACGGGCTGGAGCTCCTGCTAAGCCAG
 CCTCAGATTTTCCAGCTTATTTGTGCATCAATTTGTGTAACAATCTCATTTCATATTTGTCTCCAAT
 ACCATTTCCCCCATCACCATTCTGCAAGAATATTGTGAACCTTGTCTACATGGAAAAATCAAATCC
 AGCTCACAGACATTTTCAAAACATTTGTCTAATGTTTCCACAAATACCTTGAATTAGATCTAAAAT
 GCCAAGTCACTTTCTGAAGAATCCNCCCNAAAGACAAAATATACGTGCTAATGNCTATTAATAAA
 TTGGTGGCAGAACCTCCAATAANAATCCCCCTNTAGGNAATCCAACATTTCTTTNTNTTNAANCCA
 ANGGAAG

SEQ ID NO: 1123 ACATGACCTAATTTTTACATCATAGTAAAAACAGGCCCTATGGAGAGAGGACA
 TGGGTTTCTCTGCTGAACAGCCATTATTTATACTCGTTCCAAGGCTTCTAACATGATGATACTATTT
 CCTCGTATTACCACCATTTCCAATATTGTTCTGTGTCTCCACTAGTCGCCATCTCCACACATTCATCTA
 TCACAAGGTTTCATAAAGGGATCAAATCCCCGCAATATTCTTGGACATGTCTGCCACCATTTAATT
 TCAATGATAACTTCTTGTCCATAAATTTTTCAACTCGGGAGGGTGAGCTTTGCTCATGGTGTATAC
 TCCGCGGGCTCCCCGCGTACC

SEQ ID NO: 1124 CGAGGTACTTGCCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAG
 GACCAAGGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCCA
 TCCCTGCAATGATTAAACACCAAGGGAAGGCTGCCTTCCAGTCTGTGACCAGCGCCGGAGTTTG
 GGTCACGGATAAAACGTGTCTCTTTTGTCTCTACCAGAAAATGAAAGGAATTGAAATTAAGAGA
 AGGGAGAGATTGAAGTGTAGTGCCAAGATTGAAAGGAGAAAAGTGGTTGAGGGATGGTGAGGGAA
 GTTGAGAGAAGAGATAAAAAGAGGGCTGCTTACCAGATTTGAAATTGGTGAGATGTTTCTTGGGCT
 CGTCGGTCTGAGGACCTGAGGTCGTAGGTGGATCTTTCTCAGGGAGCAAAAAACCAGGANGACCG
 AGGATTGATCTTCCAAGGGANGTCCCCGATCCNAGTCATGGCACCCAAATTCATGTGCCTNCATTT
 GAANAAANCNCNACAGCTTTNTGTGACCACAAGGNTGTTTTTTAACNTNGNGCCCGCNGCTNA
 GTCCCAAAAANAATAACNCCCCNTTC

SEQ ID NO: 1125 CAAAATAACAGGTTATGAGGAAATGAGCGATATATGAACGGGCATAAAAAACA
 GAAATTACCCAGTAAAAAGGATGTCAGAAATTGACATACAAATATTTACAATTTTTATGAATGGT
 GGTCTTTGCAAAGAGCATTTATATTTTCTTTTTTTTACTAAAATGATATAGGGTTTATTTTATATT
 TTCAAAAAAATTGTTAAACATCATTCTTATCAATGTAAATTTACGTTATTAAAAAATTACAAATG
 ATAGAATCTTTACTCAGGGATGGGCAATAAAACAGCAAAGAGCTTTGTGATTGGGTTTGAAAGAT
 TTTGAATTATAGACAGTGTCTTAAATAGTTTTTAATAAGTTGATATTTTTTCTGTGTAGATTTAAA
 TAATTTCTTTAAAAGCCGTAAGCTTTGGCTGGGCATGGTGGCTTATGCCTGTAATNCCAGCACTTT
 GGGGGGCTACGATGGGTGGACCTGANGNCAGGAGTCAAGAACAGCTGGNCACATNGNGAAANC
 CGTTNTTCTAAAAAACAAAAATAACTTGGCCTNAAGGGANTGTNTTTTATNCNCTCTCCNGNNGN
 TGGGGGGG

SEQ ID NO: 1126 ACGCGGGGACTATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGC
 TAATGAAACTCCCGAAATACCGGACAACGTGGGAGATTGGCTTCGGGGCGTCTACCGCTTTGCCA
 CTGATAGGAATGACTTCCGGAGGAACTTGATACTAAATTTGGGACTCTTTGCTGCGGGAGTTTGGC
 TGGCCAGGAACCTTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTAGCCAAGTAGACAA
 ATGGAATCCTGTGCTGAACCCGAATCTTCCAAAAAACAGCCTACAATCTGTGACCACCACAAGAT
 GTGCCCTGATGGCAGCTGAAGTTGATTCAAATGGGCACTTTCTTCCCTTCCCTGCCTAGTTTCCCT
 TTGTTCCCTTGAGTCCACGCAGAATTCCATTCTCTGGTCNGCAGACAGGCTTAAGCTNAAAGTATTG
 GCTNTATTCTGTAAAAGTTCTGTANCTTNGGCCGCGACCACNCTTANGGCGAAATTCAACACACTT
 GGCNCGCCGTACTANTNGGATCCNAGCTTGGNACCAAACCTTGGNGGAANAATGGGCAAAATGGTT
 NCTGGGGGNAATGTNTTCCCTNCCAA

SEQ ID NO: 1127 ACAATTCTTCACAGACACATGAAGCAGAACATTTGAAAATCAAACTTACTT
 AAATACAAGATTCTAAAAGTGAATGGCAATTTAATGGTTAAAATTTGACCAGTGGTGAAACAAGC
 AGCAAGCTACAAAATCCATCACCACCAACAGTTTCAATGTTAGCACTAAGTATTAAACCAAAGTA
 ATGCATATTTCTGGTTTTGCTTCTTCAAGAACAGCCCGTTTATTCTGTTTCAATCTCTCTGAACAATA
 CTGGTAGGTAATAGTTACACTGACAATTTCCACAAAAAAACAGTGTTGGTTCTTGCCATCACTGAA
 TTTATAGTATAAATCTCCAAGGCTTTAATCTAGTTCATCAAGTGCAGTTTAGATAAGAAAGCCAT
 AAAAACAAATGGGCATACTGNCAGTTAATGAGAAATACAACCTGCACATGCNCAATTAATATTACT
 CTCTCTTAATCTACTAAGAGAACAGGTTATTAGTAGATTTACAAAAANCNTCTNTTGAATTCAAAT
 AGGGCCCTATTTCCGTGGGTCTTTATATNAANAATANGNAGCCANACNGGTATACTGGATNAACC
 CAGTCNAAGGCTGNT

SEQ ID NO: 1128 CGCGGGGCTCTTCCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGAG
 AACCCCATGCGGGAACTTCGCATCCGCAAACTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAGA

CAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCACAGGGCAGACCCCTGTGTTTTCCAAAG
CTAGATACACTGTTCAGATCCCTTTGGCATCCGGAGAAATGAAAAGATTGCTGTCCACTGCACAGTTC
GAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGTCTAAAGGTGCGGGAGTATGAGTTAAGAAA
AAACAACCTTCTCAGATACTGGAACTTTGGTTTTGGGATCCAGGAACACATCGATCTGGGTATCAA
ATATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGTGCTGGGTANGCCANGTTTCAA
CATCCAAACAAAAANCGCAGGACANGCTTCANTTGGGCCCAACNCAGAATCACCAAAAAGGAGG
CCNTGCNCTGGGTCCNNCNAAAATTTAAGGGATATTCTTCTGGCNANAAAATNCCGNTTNTTCN
AAANAAATAAAAAANTTTA

SEQ ID NO: 1129 CGAGGTACGCGGGACTCTTATTCTGCGCCTGCGCGCGGCTACAGCACGGTTC
GTTTTTCCTTTAGTCAGGAAGGACGTTGGTGTGAGGTTAGCATACGTATCAAGGACAGTAACTAC
CATGGCTCCCGAAGTTTTGCCAAAACCTCGGATGCGTGCCCTTCTGGCCAGGCGTCTGCGAAATCA
TATGGCTGTAGCATTCTGCTATCCCTGGGGTTGCAGCTTTGTATAAGTTTTCGTGTGGCTGATCA
AAGAAAGAAGGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGATTTTGAGGAGATGA
GGAAGGCTGGTATCTTTCANAGTGTAAGTAATCTTGAATATAAAGAATTTCTTCAGGTTGAATT
ACCTAAAAGTTTGTCACTGACTTGTGTTCTGAACATATGACACATGAATATGTGGGCTAAAAAAT
AGTTCTCTTGATAAAATAAACATTACNAANNNNNNNNNNNNNNNNNNNNGTACCTTNCN
GGCNGGCGCTTNAAGGGCGAAATTCACCANTTNNNGNCNTTACTAATNGAACCNAAATTNGNAC
CAAANTTGGGGGAAAATTGGGNTAAATGTTT

SEQ ID NO: 1130 ACAACATCAGTNCATAAATTCACAAAACCTATATTACAGCTAGTTAATCAGT
TTAAGAATTGTTCCCGTCAGTCACATTTTGGCCCTCAGAAGTTCATTCTAAAGATTTCAACTAC
TCTAAATTTCTAGCTACCAAGAAGTTAAGAATGATTATAAGAAGCTTTCCAAGGAGTTATGAAATC
TTTGTAGACCAGAGGCCAACTATCATCCTCAAGTCTGCTCTACCAACAGCCCTTGATTTTTCA
GGGAGAAATCTCTAGGAAAAAAGTCAGACACCAGTGTAGTCACTATCTCCCATGTCAAACCTAGG
GGACTAAAATGGTCAGTATTACCATAAAATGATAATTTGAGGTTTACCTTAAAAGGCTTATTCTG
GTCTCAAAAATTAGATAAAGAATATCTTCTACTGAAATGAATATTGACTTAACATAGAAAGACTGNT
GTCTTTTGGCGTCTTATAGGGAAGGCATAGACATGAGTCTTAANCTNCTGGATACATAGACTNA
TGNAGCTGGAAAATCTGGAATNAAGCNGGCTNAAAANCTNAAGGCCATCTTTGGGANANN
TGGTTTTAAANNCTTAAGGGTTT

SEQ ID NO: 1131 GGTACTCAAAAATCTTCCCCTACTCAAATTCAGAAATCTGTTACTAGATGTGT
GTGTCTACCTGTCTGTGTTTTAGAATTAGCTTCTCTTGGAAAGTTCCTTAGTCCTTTAAATAGTTAG
GTTTCCAAAGGTCGTGTTTGATAAGTTGACCAAAATATACATGTTGATATGGTTTGGCTGTGTCCCA
CCCAATCTCATCTTAAATTGTAGCTCCCATAAATTTCCATGTGCCATGGGAGGGACCCAGTGGGAG
ATAATGGAATCATGGGGACAGGTTTTTCCCCTGCTGTTCTCATGATAGTGAATAATCTCATGAGA
TCTGATAGTTTTATAAAGGGGAAGTTCCCCTGCCATGCTCTCTTGCTTATCACCATGTAAGATGTG
ACTTTGCTCATTCTCCTTTGCCATAATTGNGANGCCTCCCAACCATGTGGNACTGNGAATCAAATT
AAACCTCTTTCTTTATAAATTTCTCATTCCAAATATATATNAACTCAGGCCCAAAGCCAGGGGC
TCATGCCTGTAATCCTAACCCCTTTGGANGGTGANGGGGGCCAAACACTTTAGGGCAGGAGTTNA
AAACNCCCCGGGCCACATGGGGNAAAC

SEQ ID NO: 1132 ACGCGGGATTGTNGGAGTCTGTGCACAGATTACAAGGACTTAATCTGGGT
TGCCGCGGGACCCGTGTCAGATGAGCATGCTGGAGTGATATCTGTTCTAGCCCAGCAAGCAGCTAA
GCTAACCTCTGACCCCACTGATATTCCTGTGGTGTGTCTAGAATCAGATAATGGGAACATTATGAT
CCAANAAACACGATGGCATCACGCTGGCAGTGCAAAAAATGGCCTCTTGATGCTCATATCTGTTCT
TCAGCAGCCTGTCATAGGAACTGGATCCTACCTATGTTAATCACCTTATAGAACTACTAAAGTTCC
AGNAGTTAGGCCATTCAATTAATGNGCATTANGCACCTTTNCTGGTTATTTAAAAGGCAATTGCTT
TCTAATGCTCTATGGGCCCCGACTATCAAAGATATTAGTAAGAAAAGGATCNTGTTTTGAACAACA
AGGTCCANGTCACTTTGTATATAANAATTTGGCTGGATTCAATAAAAATTTGTTTGGNGGGGNGG
NNANNNNNNNNANTTNNCNNNNNTNCAAAAAATTTTNGGCNNNAACCCCTNGGGGGGAATTN
CNNAANNNGGGGGNNNTTNTTGGGGNCCCCCN

SEQ ID NO: 1133 ACCTAGCTCAGAACTGAGGGTTTTACTTTTTGGAAGAAGTCAGGAGTGGATG
TTGGGAACCAGCTTGCTGCTACCAAGGCCAGAGCTCTGTTGAAAGGAAGGGCCTTGGCCG
GGCATGGTGGCTCACGCCTATAATCCCAGCCCTTTGGGAGGCTGAGGCAGGTGGATTGCCTGAGG
TCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAA
ATTAGTCGGGTGTGGTGGTGGGCATCTGTAATCCCAGCTTCTCAGGAGACTGAGGCAGGAGAATT
GCTTGAATCTGTGAAGTGGAGGCTGCANTGAACCCAGATTACCCATTGCACCTCCACCTCGGTG
ACAAAGAACGAAACTNTGTCTTCAAAAAAAGAAAGGAAGAGCCCTTGGGTGGGGCCCA
GTGGCTCAGTNTTGTAAATCCCAACCNTTTGGGAAGGCCAAGGTAGGTGCNTTANCTTANGTCANG
ANTTCAAAACNAGCCTGGCCAACCTGGGGGAANCCCTTTTTCTTAAATGTNAAAATNACCCCGCTT

GNGGGGGGGGCCTTTATNCCCCCTCTTTNGGAG

SEQ ID NO: 1134 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGATTTTAAA
AATATATNTNTTTTGAAAATATTNTGAAAGTAATTAATAATCACCTATTGGGAAGGAAANAATCA
ACNCAATGAAATTTAGGAANANAATGCAAAAGCAGCTGCANAATCCTGCCCCTTCCACCCCAAG
GGGCACAGCCCCGGANATGAANCTTATTTTAGGATCACAAGTGCNCCCTNTGGTANACGGAGGANG
ACTTTGTCACTCTTNTGGCTGAAGGGCCTTGTCAAAGTCAGGATCANAAATAGGNCAGCNCATC
ATGCTTGGCTTTGTTGGNCTGGNANGTTAAANAAGGGCAAGGGCTTGTTCATGAGGGAGANAT
TGGAACACTCCCNGGGTACCTGCCCCGGCGGCGNTTAAAAGGGNGAATTTCCNCCCCANTGNGGG
GNNGTNCTNATNGGTTCCNAACCCGGGNCCAACCTGGGGGAAAAATGGGCNNANNTNGTTTCCC
TNNGGAAA

SEQ ID NO: 1135 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTNGAANATGGTTTATTTTAC
ATAAAGTTACTGNGAAAGGGAAAGAAAACAATANAAAAGTTTTAATATATTTTATGTTTTTACATT
ATACTTTTTTAAATAAAGTTAAACGTTTGATATGCTTCCTACTTCTCTTGATTAGTTAGCATTGANAA
ATCAACTTCAAATGGTTAGANANATTNTACCAGGTCGTCATCAGTCCATTCTCTCCTCATGTTTG
GATTTCTTTGANACGTAATCATCATCTTCATAGCCTTTCTCTCTCTGATTACGTTAAGTGCAA
GCTCAGCAAAATGACATCGCTCCAACCTTNTGTTTCANAACAGCAGCTTCTTCAAACTNNGGNGG
GTCATACTTCTTTACTAAAGTTCTCAAGCCTTTCANTATATCTAANAACCTGGGACCAGGCAANTT
TTGNTTTTTTTNAACAATNAACTTTTTGANAANAACCTTCCATANAAATTCNCNCCCT

SEQ ID NO: 1136 ACGCGGGTAAGATAAACTATTTAGGAAAAAAGTCTGACGAATTTAATGCATG
TGGGAAATTGTTACTCAATATTAAGCATGATGAACTCATACTCGAGAGAAAAATGAAGTTTTGA
AAAATAGGAACACTCTGAGTCATCGTGAGAACACTTTGCAGCATGAGAAGATTCAAACCTTTAGAC
CACAATTTTGAATACAGTATATGTCAGGAAACCCTCCTTGAAAAGGCAGTATTCAATACACGGAA
GAGAGAGAATGCAGAAAGAGAATAACTGTGACTATAATGAATTTGGGAGAACTTTCTGTGATAGTT
CATCCCTCTTGTTCCATCAGATACCTCCATCAAAGGACAGTCACTATGAATTTAGTGATTGTGAGA
AGTTCTTATGTGTGAAAGTCCACCCTTTCTAAACATGATGGGGTATCTATGAAACACTATGATTGT
GGTGAAAGGTGGGAATAATTTCAGGAGGAAAAATGNGTTTGTNCNCNTCANAAAGGNGATAAAG
GGGAAAAACCCTTTNATGTTATGNATGTNGGGAAGCNTTNTTGGNGAAGCCCATTNNCTCCCAT
AANGGGG

SEQ ID NO: 1137 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTNGACT
ACAACCAGNGTTTATNTTGATTTGTCACCACTCTTTTCATGTCTTGNTTTCTTCCACATGTTAAAT
ATNTAATAACCAAACTTTACTAACATACNAATGAAAAAACATGCCNNCATGTNTGCATGGCA
GGTAGTGAGGAATNTGGCCAGCTGACTGGTTCTTTACCAAGGTTTGCAAANTAGGTTGNTTTG
AACCTTNTGNGGGTCTGNGTCATTTCCAAGTTGAAAAATTTTCANCCAAAGAGCAACATGTCAC
ATTGATTAATAAATGGGTAATGACCCAAAAACATTNTGTTAATCTAANGGGAAANGNGGGNCCTT
TAATTAATNAATTTNCCCGGAGCCCCCNNTTTTTTTTTTNTTTGACAAATGTTTGNAAATCCCCGGG
TACCTTGCGCGGGCCCNCTAAGGGGGAATTCCANNCCCTTGGGGGCGGTTATTN

SEQ ID NO: 1138 GCGTGGTCGCGCCGAGGTACTAGTCTCTACTTGGGGACAAGAAAATAGAATA
TGCAACTCAGAAAGGAAAGAGCCCAAAGACGAGAGAACCTGCTTGTTAGCTCATTAACCTGTTTA
GTAAAGATCTGCTTTAAATGCCTGATGCTGTGCAGTATCATACAAAACAATCTTCAGCCTTCAA
GCAGCTGATGCACCTTCTCAGAGATCTGTTTGTCTGATTAACAGTCTGCTGCCCTGGTGCGCCTTG
GTCTTGGTCACTTTCGGTCATCGATGGTTTTAATGAATTCTACTGCTGCTGTGAAGTGCATCCACCA
ATAGGACTCCTCTCCAGACAGACAGCTAGCATAAAAGCTACTGATATACTGCACAGTAGACAGCA
AACAGGGTGGATTTGCCTTTATCAACACAAACACCAACACAGGAACAAAGTCATTCCGCTCCANG
GACAGAGTCTCATTGGCCAGCTCAGGANGGTCTAATCGTAAACACATTCTCAGGATGCACTG
CCTTTGTCCNNGGGGGGTTTATAANCCTTAATGGCCTGAATTCTGAATGGGCNNATGGCCTTGGGCN
TNTNCAAAANAACCCTTGGT

SEQ ID NO: 1139 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTGAATCAAAAGCAGGGT
TTATTTTTCTATCAAATCCCCAATCCATGTTCCAGCCAATGGATGAAGGGTGAATCAAGCCCCACA
TANACTCTTGGTAAAAACAATTCTAACTTTCTAAAAAAGCCAACACACTTTTTNTTT
NTTTTCAAAAGCTCCCAGGCCTTTGGGAACAGCTGAAACAAATTCATATCCTGACTAGGTCTGTT
TTCNTTAGGTATTTGGATGGTCCCTCTCTGCTGCCACTTNTGCACAGATGAGGCACTGATAATGG
CCTGCAGGTCACTCACAATCCTAGCTCCACATCACTCCATGGGTTGATAACCTAAAACCCCGTTAT
GATTTCCATTTATAATGCCTAAACAGCTGAAAANACTGTATTNAATTCTGCAAATNTTTTGGGN
GCCACTANTTTCTTGGCCAAGCTTAGGCCTTATTTGTGGTTTTAAA

SEQ ID NO: 1140 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANATGGAGTTTCGCTCTGTTGTCCAGGCT
GGAGTGCAATGGCAGTTGTTTCACCGTAACCTCTGCCTCCTGACTTCAAGCAATTCTCCTGCCTCA
GCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCGGCCCANATAGGTTGATCTTAAT
GTAACAACCCAAAAATAAATGTCATAGTCAAGATTTGGTAGATAAAATTTAAAAATTAAATATTCT
GCAGTTGGGAGTGAAATGTGATAGCACATACGTTGACATTATGCATTTAGAGATGTTATAAAAAAT
GTATAGGCAGTNTACACAGCACTACTCAAGAAGCCAAAGAAACACTTGTGCAGTGCTAAGTGTC
CATGTCTGCTTCCCCAAAGGCTAGGAATAGTGATCCTGCTNTAATGNGAGAACCCAAATCATGTTT
ATAAAATAAGGACCCTGGGAACANTTGCAGGCCCAATGAANTGGGGTGCTTCCGGCCCTTANAT
TCCTAAAATTCCCTTNCCTCANACANAAANTGNGGGNTACTTTANCTTTGGCCGGGACNCCCCTA
AGGGGAAT

SEQ ID NO: 1141 ACCTGAGATCCTGGTGCACAACATAGTGATCTTCATGCGAACTTCAGTGAAG
ATTTTCATACATTGGCCTCATGACCCAGAGCTCCTTGGAGACACATCACTATGTGGATTGTGGAGGA
AATTCACAGCTATTTAACAAGCTGCTATTGGTTCTTCCACACAGCGCCTGTAGAAGAGAGCACAGC
ATATGTTCCCAAGGCCTGAGTTCTGGACCTACCCCCACGTGGTGTAAGCAGAGGAGGAATTGGTTC
ACTTAACTCCCAGCAAACATCCTCCTGCCACTTAGTAGGAAACACCTCCCTATGGTACGCGGGATG
AATGGCTCCACGAGGGTTGAGCTGTCTNTTACTTTTAACCAGTGAAATTGACCTGCCCGTGAAGAG
GCGGGCATAACACAGCAAGACGAGAAGACCCTATGGAGCTTTAATTTATTNATGCAAACAAGTAC
CTNGNCGCGACACGCTTAN

SEQ ID NO: 1142 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAATTAAATACTTTTAATTA
TCATTCTAGCCAGGATCATACTAAGTAGGATCTCATGACAGTCACATATGCAGCGACTTCACCTAA
ACCGNGGCACTGAATGCTCTGCCATGAGCCGCAAGCAGCACAGTGATCATCACCCACAAGGACAG
GTTGCTGGGATGAGGCACCCTTTCCTTTTCATGTTTAGGNTCTTCTCACCTGCATTTCACTTTCCTAA
AGGTCCCAGCCACACAGCGTTNTTTTAGGGATTAAAGTAGTNGGAAAAAAATAAAGAGAACACA
NCATCCATCCTTAAAGAAAAAAGTAAATCCACTTTATGGNGGACTTCAGCTATGGGACAAATTT
NGGATCAGNGGTTTTCAATCTGNACATAATCTTTTGTTACCTGGGAAAAAAGNGGCAAGGTACCT
TGCCCGGGNGGGCGGTTTAAAGGGNCNAATTTCCACCCCACTGGGGGGCGGTTATTAANGGGAN
CCGACCNG

SEQ ID NO: 1143 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTNAA
ATTTCTTTCTTTTAAATTTAAATNGAGTNCATTTATTTGAAACANACTGGGCCAATGTCCNCAAAAN
AATTCCTGGTCAGCACCNCCGATGTCCAAAGGNGCAATNTCAAGGAAGGGCAGGCGTGATGGCTN
ATNGTTTNGGATTCAANGATNGGCTTTCCCCATTTCATTNGNCTTTTTAAAGCAGCCNTTTACAAA
AACAGNGTAAGNGAACCTGCTGTTGCCCTCAGCAACAAGTTCAACATCNTTAAAGCCCTGTAAAN
TGACAGCCTTTTTCAGGTTGCCAGCTCCTNATCCATGTATGCAATGCTGTTCTTGACGGGGTAGGN
GATGTTNTNAAAGGCATANTTTGGCCACCAGGCNCCTGAAAGGCNANTTGGGAACCCCTTTCTTG
GAANNCCCTCCTTTNNCNTTTAATTNAAANTGGNTGCCNCCNTTGNAANNTTTCCTANCAAAAAN
GGTTTTTTGCCCNNG

SEQ ID NO: 1144 GGTACTCAGAACTGTGTAAAAGTTAACCACCAAAACCATGTTTTAAAGAAAA
AAGTTTAAATGTAAGACTAATGTCTTGGGGACTTTACTAAATGTATTTCTAAAAAAACCCCTTCTCA
AATGTAGAAGIATTGGCAATTCTAATTTAAAAATTTTAAATTTTAAATTATGGAAATTTAAGTAG
CAATAGTTTCAAGAGCTAAGAATCAGATTGCTTTTAAACAGAATTTTTTTTTTTTCTGAGGGAC
TCATACTTGACAACTCCAGTTAAACATAATACTCCACCCAAATCCCAAATTTAAATGCATTATGTC
ACCCTGGAATAGTAAAATTATAAAATGGTATTCTTCTAAATTATAATATATACATAATGCACCATT
TTAACTGNACATTTACCAGCAGAATTATGAAATCAAAAACAAATTTCTACATTCAAGGGACAAAC
CGATAAATGCTCTTTTCATTGGTTTAAAGAATCCATTCCATTCTTTGGTGGTTTCTACTCCATATTTAA
AANTATGCCCAANGGACCTGGAAGGCCAATCAATCCANTTCCTGAANCCACTGGCATAGGTCAAG
NGNCCCTGGGCTATNAGCAATTCCTCTGAANACTGGGCCCTAAACTGCNCGAA

SEQ ID NO: 1145 ACTAAGCGGCCTTGGATACCTGGCCGCGGGATGCTGGGCGGCGTCAGGTGAG
CGGTGGTTCGCTGGGCCCTCAGGTAACCATGGAGAAAGAGCTGCGGAGCACCATTCTTTTCAATGCC
TACAAAAAGGAGATATTTACCACCAACAATGGCTACAAATCCATGCAGAAAAAACTTCGGAGTAA
TTGGAAGATTTCAGAGCTTAAAGATGAAATCACATCTGAGAAGTTAAATGGAGTAAACTGTGGA
TTACAGCTGGGCCAAGGGAAAAATTTACTGCAGCTGAGTTTGAATCCTGAAGAAATATCTTGAC
ACTGGTGGAGATGTCTTTGTGATGCTAGGAAAAGGNGGAAAAATCCAGATTTGACACCAATATTA
CTTTTTACTAAAAAAATATGGAATCATNGGTNATNATGATGCCTGGGGGTAAAAAAGGNTTTTAC
NAATANTTTCATCCTTAANAANTNTTATTTTCAANGGAGTNTTGACCAGGGAAATAACCCAACTG
N

SEQ ID NO: 1146 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGGCTTGNGTTTTATTCAAGGCTT
GTCAGCCTCCCTCCTTCCCCCTGCGGGTGAGGTAGGAGGGATAGGGTTGGGGGAGGGAACAGGGG
CTAGGAAGGGGCAAACCTGCAGCTGCCCTTTGTAAACATATCCANTGCAGTGGCAATGGTGC
TGTCAGCTCGATGCTCCGAGCCCAGTTCTCCACATCCCCAATTTCTTGAGTGCCTGGTTGAAGTT
NTCCACCATTCGATCCACTGGCCTGCTGCTGGCAAATTGGGCAACCTGGACCTGTAGGGTCTT
CACCTCATGGGCCAACTTTCTCTGGNTCATGTAAGCCCTGGCCACACCCCCATTGANGNGATCCAC
CCAAACTTTTTTNNAGGCAGGGNNCTTNAANNAANANCCNTTTNCCNTCCTTTTTTTCTGGGANN
CCNTGGNGNNAATNNGNTTGGGCCNNGGGGTNTTTAAGAAGNNGGGAAAAANNGGNACNTNG
G

SEQ ID NO: 1147 ACACTGTTGGTGTATATGGGGATGGGGTTCTCGGTAATTTTGTTTATTATTTA
TGTTTATTATTATGTTTTATCATTAAATTATTCAATAAAATTTTATTTAAAAAGTCACCTACTTAGA
AATCTTCTGTGGGGTGGGAGGGACAAAAGATTACAAACCAAACTCAGGAGATGGTAACACTG
GAATTGATAAAAATCACCTGGGATTAGTTGTATAAATCTGAACCACCAAACTCTGCTATCAAGCCT
TGCTACAGTCATGGCTGTCCAGAAAGATTTACAGTTATTTTCTGAGAAAGGATCCATGGGCTTTA
AGAACTTCAGAACTTTAAGAACTTCAGAACTTCTTAAGTTGCTGAAACTCAAGTAACCAAANTTG
AATGCCATCCAAAAAAAATACCAAGGGAGTCAAGGNTTTGAAAGGCACANTCTTATTCTTAAAG
NGACTGGTTNAAACCNNGGCCAAAACCANNTAANTTCCTGGNGAATCCNAGNNACCNAATGGCAA
ATTNCCGC

SEQ ID NO: 1148 ACCATTTGGCCCTTTTGCCTTCATGCCAGGAAAACTTGTCATACTAATGAAG
TCACTGTTTACTGGGGGACAACTGGTTTGCAAAGTGCTCAGCAAAGCAGGCTGTAGGTTTAGTTG
AGCACCGGAAAAGAATGTAAGAAAAACAATAGATGACTTAAAAAAGTGATGAAAAATTTTGA
ATCCAGAGTTGAATTCACAGAAGATTTGCAGAAAATGAGCGATGCTGCAGGTGATATTGTTGACA
TACGAGAAGAAATTAATGTGACTTCGAATTTAAAGCAAACACCGAATTGCTCATAAACCGCAT
TCCAAACCAAAAACCTTCAGATATTTTGAAGCAGATATTGCAAATGATGTGAAATCCAAGGATTTG
CTACTGATAAAGAACTGTGGGCTCGACTTGAAGAACTAGAGAGACAGGAAGAATTGCTGGGTGAA
CTTGATAGTAAGCCTGATACTGNGATTGCAATGGAGAAGATCCACATCTTCTGAAGAAGGAAAA
GGAANTCGTACNCCAATGTGAATGCGATGCATCAAGTACAGACTCTATACTCTGGCATAAGGTG
TTCAGTCAAACNTCNNGGCAATGATANCCNTGACTNTCANGAAGGTCTT

SEQ ID NO: 1149 ACAAAAACTGTGACATCAAGAAGGGCAGGAGAAACAAAAGGCATTTCTAT
AACATCTATCTGATCCTAACAGAGTATGTAGGAACAGAATAGTAAGTCTTTAGTGCCATAAGATCT
TAACATCTCACTTCTACTCCTGCTCTCCTAGTTCCTCCCCAAAAAAGAAATACTGACCAGTGTCTCT
ACTTTAAACCTACCTGAAACTTGAGACTATGTCTAATATAGAACTCACATAACTAGCCCAGGTA
ACACAGCAAGACCCCATCTCTACAAAAATATTAATAATTTAGCTGGGCATGGTGGCATGTGCCTG
TAAATCCCAACTACTAGGGACAGTGAGGCAGAAGGATGGCTTGAGCCCAAGAGTTTGAAGCTGCAG
TGAGCTATGATCAAGCTGCAATCCCCCTGGGTAACACAGCAGGACTCTTTTTNAAAAAAGGAAN
NNNANGAANTCCTTNNAGTTCANTCCCTANAAGTATNTNCAATGACCATAACAGCCTTCTATGCTT
TAAACTTTNAATTT

SEQ ID NO: 1150 ACATGAATTAGAAGCGTGCATCTAGGATTATGGCCAACTGTTTTAAAAATG
CAGAAATGTAAATACATCTTGAAATATGAAGAGATGGTCTACACACTTCAAAAATCAAATGT
TGCTTATACCAGAGATGTATGACAATCACGGGATTCAAGTGACAAGCAGTAAGATCTCAAAAAT
AATACTGGTCAAAGATAATGGGAATATTTTGCATTTCACTGAAAATACATTGACTACTAGAATAC
GAAATCTAGCAGGAACCTCAGGGAAAAAAATACAAAATCTAAAGCCAATTACTTAATATTTCTT
ATTACCTAAACAACAGCATGACATTAACAGAAAACTGCCCTGCATTTCAATTGCCAATCTCACGTT
AATTAAAGTTCTTCAAAAATGAAATGCAACCNAACGGGTTCAAACTTCAAATGAAAGTCTGCAA
GGCTCAGATTAAACATGGNATGGTTCANATGAAAGTAATTAACACTATTGGGTTTGGTCTTAT
TGAATGGAATAAATGTTGACNTTCTTTGNAACTTGGACTACTNAATTTTCATTTTCCAATGGTCTAC
ATTTTCTTAANGGGCAAGTGCTTAAGTNCTTAGGAGCATNTCAAGGCC

SEQ ID NO: 1151 ACTACCACAGCCTTTAGGTGACATTGATTTATAACTTGGTCACAATTCAGTGC
ATTTAGGAAAACAGCATCTTATCTGGTCACTGCTCGCTTCTTAGCAACCCCTAATTAAATTTAAT
TCATCTCTAAATCTTAGCTTCAACTTTATTCAATTACATTTGGCTGACGGCTGTTTTCTAAACCT
TAAGTGTGACCATAAATGCAAACTTCCAGTATCTGNTGGGTTTTATTAGCAGATGCTGCTTTTA
TTTTAAAAAACCAGACAGTATAACTGNCATAATTATGGAAGGCACTGCTTCCGATAATTATATTCT
ATTAAAAAAACACCATTTATAGTGAATCTGCACTGATAAATAAACAATAAATATCTCAAGTGCC
NAAAGGACAGAAAGCTCTCCCTAAGATTAACACTTTGGCCNAAATTGGCAGCATATTATTCTTTAA
AGTCTGACAACTGAGTCTGCACTAAACACCTGGAAGTGGGCTCTTTCANGGGCCTTGGAAGAAC
CAAAATCCCAGAACTTAATGNNGGCTTNTNGGGGAAGGGCCAGGGAAAGAAAAANTCTAAGCTTT

GGTTTNGGNCCNCTTTTTAAAGAACCGGGGNACAAATTANGC

SEQ ID NO: 1152 ACCAGTGAGAAGACAGCTTTGCAGTCACACTGGAGATCAGAGTTCCAGGCTG
CAGCATGTCACCAACGCCAGGGAACCTGGCACTTAGGCCTGTTGGCTGCTCAGTTTAACTCCGGCT
AAGCTGCCATGCATGGGCTCAGCTACTCCATCAGTCATGTTGTCAAACCTGTTCCCATCCTCACTG
NCAATTGTGCTATTCTGCCACTCAATCTGGGGGTTAGATAAGCGCTCATCATTCTCAGATGCATTC
TTCCACTGTGACTGGTCCTTAGACCAAAAACCCCTTCAACTTTCCATAGGAACTATTCTTCCATTTCA
ACTGCTCTCTGCACCTTGCATGGTAGCCTTTTTTTTGGCAGCTGGCTTACTGNTCCTTGCATCTTCG
CTTTGGGAAGACTCGTCAGACCAAGTTNCTGGGTTCATTTGCAAGTATTGGCCTCAAGTCTGACA
CTTTGNTGGGATCCAAGCCCACTNTTAAAANGNGAACCCCGINTTTCACTNAACAACATCGCTTGG
CNAACCTACTATCAGAAGCNTTGNGCATAANTTGGTGGGTCTANCCAATGAANANTTCCNANTT
TGAACCATCCCTTTTGGGCAACTTTCCCAAATTTGAAAATCCTNG

SEQ ID NO: 1153 NGTACTCAGCTCTGTTCTCCTACTCAGGCTGGGACACCCTCAACTATGTCACT
GAAGAGATCAAGAATCCTGAGAGGAACCTGCCCTCTCCATTGGCATCTCCATGCCCATTTGTCACC
ATCATCTATATCTTGACCAATGTGGCCTATTATACTGTGCTAGACATGAGAGACATCTTGGCCAGT
GATGCTGTTGCTGTGACTTTTGCAGATCAGATATTTGGAATATTTAACTGGATAATTCCACTGTCA
GTTGCATTATCCTGTTTTGGTGGCCTCAATGCCTCCATTGTGGCTGCTTCTAGGCTTTTCTTTGTGG
GCTCAAGAGAAGGCCATCTCCCTGATGCCATCTGCATGATCCATGTTGAGCGGGTCACACCAGTG
CCTTCTCTGCTCTTCAATGGTATCATGGCATCTGACTACTTGTGCTGNTGGAAAACATCTTCCAGCTCA
NTAACTTACAGCTTCAGCTACTGGGTCTTTGTGGGGCTTTCTATTGNGGGGCAACTTTATCTGC
NCTGGAAGGACCTGATCGACTTGNCCCCTNAACTTAANGGTTCTTCCCATGGCTTTNGCTTGGNCA
TTTTCCGGGGNTGGTCCCNTTCAAGGGGACTTTNACTNCCTATTG

SEQ ID NO: 1154 GGTACAAATATTTAAGAGTGTTGATTGGGAGTAAGGGAATGTCAACTGCCAA
TAAAGTGGAAGATGAAAGAATAGGACTTTACACAGAGCATATTTAGTTATGGGTCTCTGTCTCCTC
CCCACACAGAAAACTCCAGACATTCATGACTTCATCCACCCTGCCTGGCAGATAGGCCATATTT
CCTGACCCCTGGCTCTTACCTCAAAAGGTTTATCTTTCCACCACACTAGCAAAGACCCTCAGGA
CACACAACCTCATACTGCCAGCTAAGCATCTACCCGAGGGACAAGGCAAGCACACACTAGGGCAG
CTGGGCCATCCTGGCCCTAATCCCTCCAGCGGTGTCCACACTGAGCATTGCAGCACTTGTAGAAGG
TGGTCATCGGCTCATCTGCAGANCGGGTCTGAAGCTGCATGAAGTAAGCACGAAGATGTTTCGCAT
TTGGGACACGACTTTTGCAGTAGAATCAACATTTCTTCCAGCAGCTGTTTACCAGCACATNATNCAC
TTCTTTTCAGTTTNGGTACCTGGCCCGCGCGCGTTCNAAAGGCGAATTCCNCACACTGGCGGCGGT
CTANNGGACCCACTTGGNACCAACTTTGGGGNAACATGGCATACTGGTNTCTGGGGNA

SEQ ID NO: 1155 ACTGAGAACAATTTAACTCTGAACACAAAAAGTTTAGTGAATTTGCTACTGTTT
CATTACAGGACAATTAATAAATGAGACTATATCAACTTCACTAGAAATTAATTGCTAAAGCTACCTT
ATGCACATCTATTAACTAAAGAAACGACTTTAAACCCCTCAGTTGTTTTTAAGACAGCACTCCT
TTACAGGGAGTCAGGTTTGTTAAATATAAAGGATACATAAAAAATACAGTATAAACTGCATAAGC
TTAACAGTAGCAAAAACACTGATGAACTTTTAAAGAGTCAAAAATATATAAAAATATTAGCCTGA
AATGGCAAAATTTCAAACACCGATCTGTGTAAAAATGTTTAAATATTGATGNTACTCCAAAAATAT
ATACTTATTCTATTTTTTTTCTATTTGCAACAGTTTATAAAGGCAAAACAAACCTGCAATTGAGGT
ACAAAGCCCAATTACAAACTTTGGATCAAGAAAAATCCCTTCCTATGGTTTAAACAGCATCTTAA
TACCATAGTGAATGAATCTAATTGGTCCCAANTTTAATTCACATACTTTACCAAANTTATTTAAA
TACGGAAGGTTGGTNAAAAGACAGTAGTCTGACAATATTTACATTCAAANN

SEQ ID NO: 1156 TCGAGCGGGCCGCCCGGCCAGGTCTGCAAAGACCCATCTTCCCTCCAGTTAA
TACACTCCCAGGATGGGCTGCAGAGGGGGAGACTCTGAGAGAAGCTGGAGGGCCACAAAAGTCC
ACTGACCCTCTTTCTGTCCCAGAAATGAATAAAGGACCCAGTTGTGCTTTCCCTTCCAAAATCCTCA
ACAAAGTTGTTTGTGCTCCAAGAAAATGTGGGAATAAAAAATCATGTCCAGGTCATCTTTGTGT
GTGTGCGGGGGAGGTGGATGGGAGGAAAAGGCATGTATTAATAGATACTGCTGCTATAAAAATGAC
ATAAATTATAGCCCTTGATCTGNTTCTGTAAACAATGCCAGCTTCTTCAGGTTATTGGGCACTACC
CCTAATATACCTAGCCAGATCCTTTCTATAAAGTCAAGTGCTATATTTCCAAAATAATCCTATGAA
ATCATGAAAGGTGTGAAAGGTTAATATGAAGACCCCTTCTTTTGNNGCTTTTTTACCCTTTATA
AAGAAGTTGCAATTTATCAGGACCCCAATAAGTAATTAACCCCTCAGGGGTAGCTCACTTATGATC
CAACCTGACACTGGCCCATATTTATAAATCATGGGTACATTGAGGGGAAAAGGTTGCCGGCAATA
GNACCTT

SEQ ID NO: 1157 ACCTAGTGGCTGCTGTCTTGTGTTTGGCTCCATTTTTTTTTCAGCTTCTTATCCAGTTT
CTCACCCCTTACTTTTGTGCTACCATCTTCTCTCCAGGAGGATCGTAAGGTTTGGGACGGGCAGA
CCCACAGAGAACACCTGGAGATGGGAGGCTCCTATTTGGAGAGCCCTGGTAGAGGGGCTGTGCT
GAGGAGACCCCAAGATAGGACTCTGGGCTCATACAGATGCCACTATCATTATCTGAAGGGGTGTCT

TCCTCCTTTATGCACTGAGGGATCATGGCAACGTAAGCAGTGTAGTCTGGCTTCTATCTCCTTCAGT
 GATATCCACTTCACTGCCCAGCTCTAAACTAAAGGAATGATCTGGAGTGGAGGACAGGACCCCTG
 GGGAAAGGGGAAGAAGTTGTAAGAAGGTGAANGGGGCAACCTGGTCNCGTTTTGGTAAACTTTCT
 GGGAAATGGCCAATTGGGTTACCGTCTGGGGGGGCTGCTTATTANTCTNCTGGACTAAGGGGGC
 CAAANAGATCACAAGTGTCAATCAACGTGGTCANAAAGGCATCTGCATTGGGTTTCANGCATNTTN
 CCCACANGGCTTCCAATCGAACTCCTTAAATCCATTTNTTCAACATCCANCTNGGCCGN

SEQ ID NO: 1158 ACACCTTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTTGTA
 ACATTAAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACACTTCT
 TCTGGTTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGGAGATTTTTTTTCTTTACAATTCAA
 GTCTTCAGCAACTTGAGAGCTTTCTTCATGTTGTCAAGCAACAGAGCTGTATCTGCAGGTTTCGTAA
 GCATAGAGACGGTTTGAATATCTTCCAGTGATATCGGCTCTAACTGTGAGAGATGGGTCAACAAA
 CATAATCCTGGGGACATACCTGGCCATCAGGAGAAAGGTGTTTGAAGTTGGTTCATAAACAGAT
 TGAGGAGGACAAAACCTGNTCTGCCAATTTCTGGATTTCTTTATTTTCAGCAAAACACTTTCTTTAAAGC
 TTGACTGNGTGGGCACTCATNCAAGTGATGAATAATCATCAAGGGGTTGGTGCTTGCTTGGATTAT
 ATAGAACTTCTTCATATGTCTGAGTCCCAATAAATNGNCANCCCCAACCTTTGGAAANGGCTTGGG
 CAATTTGGGCCAAAAACCTTGGGGCCNTTTGGNTCCAGGTTTACTGGGGGACTCTGGC

SEQ ID NO: 1159 ACCCTTTAAGATATCCATCTTTTTCTTTTTTAACCCTAATCTTTCAGTTGAAAGA
 TTTTATTGTATAAAAAAGTTTCACAGGTCAATAAACTTAGAGGAAAATGAGTATTTGGTCCAAAAAA
 AGGAAAAAATCAAGATTTTAGGGCTTTTATTTTTCTTTTGTAATTGTGTAATAATGGAAAAA
 AACATAAAAAAGCAGAAATTTAATGTGAAGACATTTTTTGTCTATAATCATTAGTTTLAGAGGCATTG
 TTAGTTTAGTGTGTGTGCAGAGTCCATTTCCACATCTTTCCTCAAGTATCTTCTATTTTTATCATGA
 ATTCCCTTTAATCAACTGTAGGTTATTTAAAATAAATTCCTACAACCTTAATAAAAAAAAAAAAAA
 NNNAAAAAAAAAAGNCCTTTGGCNGGAACNCCCNTAAGGNCAANTCNCCNNNTGGNGCCGTCN
 TANGGGTCCAACCTNGNCCCAACNTTGGGGAAACATGGGCAAACTGGTTCCCTNGGGAAATGGTTT
 CCGTTCCAATTTCCCCANTNCAANCCGGAGCCTAAAGGTNAAACCCGGGGGCCCATGAGNGNCTA
 CCTCNCTAATGGGTGGCCCATGNCCNTTTCAATNGGAAACN

SEQ ID NO: 1160 ACACGTTCTTGTTGTCTGGCTCGGCAACAAACACCACTTCTCGGCCAGTCTTC
 TGGTTATGGAGTCGGACAAATGTCTGGTGAGGAGTGAGTTTCAACACAGTGTTCACATCTACCAG
 CTGGAAGAACAAGGCGAAGTTCTGGTGGCTGTCTGCGATGAATGTGCCCTTGGCTTTGGCTGGGT
 TGTACCCCGGTAGTTTTGGGTGCAATGCTCTGATCCTTATCCACGGTGGAAAGATCAACATTTGT
 GATGCCAACTTCAGTGGAGATCTTGACTCTGAGCTCTACGGTATTTGCAATATACCGGTTGTCACC
 TTCAACTTCGACAAGGAAGTCATAATAACCACTGGAAAATTTGACGTTTCATGAAATTTAATTCAA
 AACATCCCCTACAGGGGTGAAAGATGTCTTCTGGAAGACAATGGCTCTGGAACCAAGATTTCATG
 GCATGGTCTAATTTAACAATGGCCTGAATCAAAAGCTTGAGACCGAACATTTGGTGACNTTCNAA
 CCCCAGAAAACCTGGTCATTAATGTCNGAACCAAAACCTTAGGNCAACNCANTTGGACCTG
 GNANCCATNTTCCAAAACNCNANNACTTTNNAAGCCCCCTTAAAGNTTTGAAANGGCTTAA

SEQ ID NO: 1161 ACGCGGGACAGCACGGTTCGTTTTCTTTAGTCAGGAAGGACGTTGGTGTG
 AGGTTGGCATACTATCAAGGACAGTAACTACCATGGCTCCCGAAGTTTTGCCAAAACCTCGGAT
 GCGTGGCCTTCTGGCCAGGCGTCTGCGAAATCATATGGCTGTAGCATTTCGTGCTATCCCTGGGGGT
 TGCAGCTTTGTATAAGTTTCGTGTGGCTGATCAAGAAAGAAAGGCATACGCAATTTCTACAGAA
 ACTATGATGTATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTATCTTTACAGAGTGTAAGTAA
 TCTTGGAATATAAAGAATTTCTTCAGGTTGAATTACCTAGAAGTTTGTCACTGACTTGTGTTCTGA
 ACTATGACACATGAATATGTGGGCTAAGAAATAGTTCTCTTGATAAATAAACAATTAACCAAAA
 AAAAAAANN
 AAAAAAAGTCCTTGGCCGNGACCACN

SEQ ID NO: 1162 GGTACAGCTTTTGTCCCAGTTTGTCTCTCCATTTACTGGATGCATTTATGGAAG
 GCACATTACAGGTCTTTGTGGGAAGAAACAGAAAGAAATCACAAAAGCAATTAAGAGAGCTCAA
 ATAATGGGGTTTATGCCAGTTACATACAAGGATCCTGCATATCTCAAGGACCCTAAAGTTTGTAAAC
 ATCAGATATCGGGAATAAATTCTATCACGTTACCACTAATAAACTTATTTTACAGTAAAAA
 AAAAAAAAAAAGT

SEQ ID NO: 1163 ACGCGGGGGGAAATGCGTGTCTAGCTTTCTGTGTGCTTAGGTGCCCGAGCTA
 CTGAGGGTCTAAGTCCGGGCAGCCGAAGAGTGTGGTAGGTAACGGTCTCAGCGCAAGGGTCATT
 TCGTCTGCTGGGAAGGGACGGCCCTCGCCCGCGGTGATGGTGGTTAGCAAGATGAACAAAGATGCG
 CAGATGAGAGCAGCGATTAACCAAAAGTTGATAGAACTGGAGAAAGAGAACGCTCAAAGAGT
 TGCTGAGAGCTAAATTAATTGAATGTGGCTGGAAGGATCAGTTGAAGGCACACTGTAAGGTAAT
 TAAAGAAAAAGGACTAGAACACGTTACTGTTGATGACTTGGTGGCTGAAATCACTCCAAAAGGCA

GAGCCCTGGTACCTN

SEQ ID NO: 1164 ACATATTATTAGCATAGAATTCATCATTTTTCAGCAGATAGGACCACTTCTCTT
AAGTCTTTACTGATTCCCGGCACTCTGGAAAGATCAATCCGATTGTTGTTTATGCCTAGTAGTTCGT
GGACCATGGCCTGATATGTCCACTGGTTTAGCAATGGGGTGATGGGCATCATCACAGCGATCTAAA
ATAAGGAGCAATGGAGGAACCTCTGTCCGACGGAATTCAAACAGTTCATATTCTTTAGTTATCACT
TGCTTAACGCACTCTGCAAGTCTCTTTGCTGCCTCTGATGAGAGCTGATAACGAATCATGGGACAC
TTCTTCAGAGATAAAAAGGAGAGCTGTAAGCCCTTGAGTTGGTCTAAATAGCTGGGCTGGATCCCA
ATTGACCCCTGGCAGCAACCCAAAATATTGANGGAAAACAAATGTGGGGTCACAGCAATGTAATC
CCATAAAATTNCTGAACTTAACCCCAACTTTCTGGTCATTANCTTTAGCCCATGCNTTACGTACTCT
TGCTGACACATTCTGGAATAAATGAAATATTTAGGGANTTGGGCTTNGACCNCNGAAAAATAATC
CCATNTCNTTGNNGCGAAAAACNAATGCCTTAGGGGTTTAAAN

SEQ ID NO: 1165 CGAGGTACATGAAAAAAATAAAAAATTTGATCATGAATCAAACCCCTGGAAC
AGATGAAGACAAAAGCGGATGAGTGAGTTATATAAACTTACTTCCATTCTGTTTCGGATTTTAAGT
TTGAGAGACTTGCTAATGAATCTCCTTTATGTTGTTTTCTTTTCATTGNTTTTGGATTGNTTTATGT
TTGTCCTTTTTTTTCTTAATGTGGATTTCATTGAGTTGATTTTTTGATAATCTGCAATCTGGATAATT
TGT

SEQ ID NO: 1166 ACGCGGGGCATCACAGTCAACTTCACAGCGACCAAAGTTAAAAAGAGTGATG
AAAGAAAAGACCAAACCTCAGGGTGGAGAGGGCAAAGGCGCTCAGTCAACTCCGATCCAGCACT
CCTTCCTCACTGATGTCTCAGATGTTTCAGGAGATGGAGAGAGGGCTGCTCAGTCTTTTGAATGATT
TCCACTCTGGAAAACTTCAAGCATTGGAATGAATGTTCCATTGAACAGATGGAACATGTTTCGGG
GAATGCAGGAGAAATTAGCTCGCTTGAATTTGGAGCTCTATGGGGAGTTAGAGGAACTTCCTGAG
GATNAGAGAAAAACAGCCAGTGACTNCAATCTGGATAGGCTTCTGTCAGATTTANAAGAATTGAA
TTCTTCCATACNAAAACTCCATTTGGCAGATGCNCNAGATGGTCCCAATACTTNTGNTAGCTTAAA
TGAAATGNANTTTCTTTCTTGNGAATTGAAAAAAACNNCAGNCTTTACTTTTTCANNCCAATTCNG
TNCNNAATNATTTTTCCACCNGGGATTANNNNTTAAAGGCCNGTTNAGGAANNNTTNCCTTCCG
NGTTAANAAAAGNGAACCCNNNAATTNCCCAAATGGGGGCN

SEQ ID NO: 1167 CGAGGTACGCGGGAAAGAGGATGGTCAGGAGTATGCTCAGGTAATCAAAAT
GTTGGGAAATGGACGGCTAGAAGCAATGTGTTTCGATGGTGTAAGAGGTTATGTCACATCAGAG
GAAAATTTAGAAAAAAGGTTTGGATAAATACCTCGGACATTATTTTGGTTGGTCTCCGAGACTACC
AGGATAACAAAGCTGATGTAATTTTAAATAACAATGCAGACGAAGCTAGAAGTCTGAAGGCATAC
GGCGAGCTTCAGAGCATGCTAAATCAATGAAACTGATACATTTGGTCCTGGAGATGATGATGAA
ATTCAGTTTGATGACATTGGAGATGATGATGAAGATATTGATGACATCTAAATTGAACTCAACATT
TTACATTCCATCTTTTCTGAAGATTGCCTACAATTTGGATTGATCATGACCAAGAAGATTAAAAAT
TTCATTAGCATGAATGCCATTTGGTTAAACNAGACTGATTGGTICTAAGANATTTTGGGTTTTTTN
AAACTGNTAATAATGCTGAAATATCTTAAGTGAGATGTTAACCCCTTTGGCCTTTAATGNAATGG
AGCTTTTGGTNAAAAACCTTGTTACTAATTCCAAAAAANNCCTCCTTGTTGGTTTTCTN

SEQ ID NO: 1168 CGAGGTACATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCCTGG
ACTTTACAATGAAGCTGTGAAAATTATCCATGACTTCCCTCAGTTTTATCCTTTAGGGATTGTGCAA
CATGATTGATCTTGATGGATTTTCATACGATTGTAATGAGCTATATTAAAGTCTATTAAAGGAAG
CCCTTCTTGTGTTGAGGGAGAGATTTCTGTCTTTCTCATATTTAATTGCTGTTTTTAAGATATTCCA
ACCTAGAGTTTTTGGATGGAAGTATATATTGACAGTTCTCACCGAAGTCTTTTATAAAGAATTGC
TACTCCAATATATGGTCAGATTAGATGCAAGAATAAAGCAGTTGTCCGAGTCTAAGTTTCTATTTT
ATTAATAAAAACTAAAATGGTAAAAAAGTACCTGCCCGGCGGGCGCTCGA

SEQ ID NO: 1169 ACTTTCCTGCCTTTTAGTTTCCTGTGCACAGCCCCCTAAGTCAACTTAGCATTTTC
TGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTCAGCTAGTGGCCAAGAGATGCA
GTGCCAGGAACCCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCCTGGATTTGCAT
ACATTCTTCAAGATCCCATTTGAATTTTTAGTGACTAAACCATTGTGCATTCTAGAGTGATGATATAT
TTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTGATGTANGNTATTA
TGATTAGCTTTGNCACTGNTTCACTACTCAGCATGGAAACNAGATGAAATTCATTTGTAGGTAGT
GAGACNAAATTGATGATCCNTTAAGTAAACNATNAAAGTGNCCATTGNAACCCAAAAAAN
AANAAAAAAGTGCCACCNTTTTCAAGTGGCTAGNAATTTAATGCCNGGCTGGGCTACCCCTT
TTTAANGNGGGGTTGAGCCNTNTNGGAAAAATNGAAAACCAACCGGGGGGCAAGGGTAATNCNT
TGGCNAACCCNANACCAAAGGGNTTANNCCTTTGGTTNAAAACCTTTTGC

SEQ ID NO: 1170 CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGTCAGNGCTTTCTACTTTA
TTAAACATCAAAGCCCAAATAGATGTTCCCTGTGGAGGAGGACTTAAGGACACTAGGGGAGGAGA

AAGGGACACCTGGGAAGAGAATCACACCACAGAGACCAATCTTCACAAAAAGGGTCCAATATTG
 ATTTCTAGGGAGGAGCAGGGCATGGTCAGCTCAAATTTGGTGATAACGTCAGGATGAAGGACCCC
 AAGCTTCCGACGCTTTGACCCCTGGCAAAGATCTCTGCACATCGCCCGGGGAAGAAAGCAGGCC
 TTCTGATGCTTTGATCACATATCCCCCTTGNCTTCACCAGGAGGCCATNGAGCAACTGCATAATT
 CTGTCCAGCAACCCATGAATGATCTNAAACCCAGGATTCTTGGTGNAATAAACAGCACAAAAANAT
 GTCTGNAATTTTTTGGCCTACATCTGGATTAAAATCTTTTANTACAATGNCAGANAATTCNAACCG
 NTTCANTGGAAAGGGCATTTTACCAATTGCTGCTATGGCTTNANGANGCCCCNAAAAAGGTTTGC
 CTGNCNCCCNAATTAAGTGGNTTAGGATCCTATGNGGCNGCCTTTTTTGN

SEQ ID NO: 1171 CGAGGTACGCGGGGAATACTAAATGTAAAGTTCTAGGCAATTATACGGGGAC
 TCAGAAGGACCTGGCCGCTGCCTTCATTGAGTTTAAAGGGACAGGATTGCCCTTCCGTCAAGAAA
 GTATGTAAGTGTGGACTGCACAAATTAATGTTTTTCCACAACCGAGACTTGGAGATTAAGAAAC
 TTATTTGAGGATTTAAGAATTAGGGAAATAATTTGGTGGAACCGGGAATGAGTTCTATTCTTAAA
 CAGCCTTTTTTTTTCTTTTTAATGTTGGATATACGGCGAGGTAGAGTTGGCCATATTTTCAGAGACTT
 AGATTGACGTATATGTTTCTGCATTATTTTTACAACAAGTTTGTGTATCAGAACCGGGAGTGCCGG
 GGGAAAGGGAAAGAAAACAAACAGGTTTCAGAATTGAATAGGCAAAGTGACTGGTTTAAAGAATA
 AGTANTAAGAAGGTCTTATCTAAAAAAAANNNNNNNNNAAAAAAGTN

SEQ ID NO: 1172 ACGCGGGGAATTCGTCAACAGGAGGAAGACGGAGCTGGCTGCCAGCCCCAA
 AGGCCCATGAGGGGATGCAGTTATGGGCTCTGTGCGCGTGGATTGTTATTTTGTGTAGTAAGTAA
 TCCATAAAGTGCCAAACATGGGAAAGAAACGGACAAAGGGAAAAACTGTTCCAATCGATGATTCTT
 CTGAAACTTTAGAACCTGTGTGCAGACACATTAGAAAAGGATTGGAACAAGGTAATTTGAAAAAG
 GCTTTAGTGAATGTGGAATGGAATATCTGCCAAGACTGTAAGACTGACAATAAAGTGAAAGATAA
 AGCTGAAGAAGAAACAGAAGAAAAGCCTTCAGTTTGGCTGTGTCTTAAATGTGGCCATCAAGGCT
 GTGGCAGAAATTCANGAGCAGCATGCCTTGAAACACTATCTGACGCCCAGATCTGAACCTNAC
 TGNCCTGGGTCTTAATTTGGACAACCTGGANTGTATGGGGGTACCTATGTGATAATGAAGNNCAATA
 TTGTAGTTCAAACCAATTNGGTCAATGGGTGAATATNTCAGAAAACATGCCCTTTCAAATTCNAA
 NCCCCANAAAAAATGGGAAATTACCTTNAATAAAAAANTTTAAAAANA

SEQ ID NO: 1173 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATATCAGAAATGCATTTTAAATTTT
 ATTTGAAAACAACCTTAAATTTTATAGACAAATGATTTTAGTATATAAATTTGCTTTTGNTTTTATACA
 GAATATAAAGATTTCCTCATTAATCTTCCATGTGAAGGGTATTACAAGCCTGGAGGAANATACTT
 TCTGCACACAAGTATGTATCTTATGTGTGCAGTATTGGAAACCAATGGTGTAGTGCTCCTACACAT
 AAATGGGGTCAAGTGACATCACAAATTTAAAGGGGGAAAGAGAAATATTCTAGTTAATCAGATGC
 NAGAAGCAAAACAAGACGCAAAAACCTGTGCAATNAGACCAAGCCAGTAACCTTAGTTACCACACT
 GCAGATTACACTGGAATAACAGGGTTGTGANGCTATAGTNGCACCACATTTAAACAGCNAGAAA
 GAACTNTTTATATTGAAANGCTGGAATGANGGATTTTACTTAAAGCCAANTAACCTTCTTGTAAGTG
 GCCAAACCAAACTGGACCCCCCGTACCTTTTTTTTTTTTTNNNNNTNNTTTTCTNTTNANCCATGG
 GNGGNTTTNCCCGGATNANGGGTTTTACCCGGGNAAATTCN

SEQ ID NO: 1174 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANATGAGGTCTCGCTATGTTG
 CCCAGGCTGGAGTGCAATTATTCACAGGNGCAACCACAGGGCACTGCAGCTTTAAACTCCTGGGC
 TCAAGCGATCCTCCTGCCTCAGCCTCCCAATAGTTGGGACTAGATGCACGCACCAACCGCTGA
 CTCAGGACATTATTCTTAAAGGNATTATCCAGGAAACAGATAAGGGCATTGATAAAACACACGGN
 TTTTTTCTTTAGCTCAGNGTTAACAATGAAAGTAGATTCCACTATTGAAGCACAAGTTGCAAAAT
 GGTAACATAGTGAACATATTGCTGTAGGAAAGGGGGTTTANTGTGGNGTGTATATGAGCACTTG
 AACTTTTTCAAGGGGNCATAAACCCAGTTTNTTGGCNCCAAANAAATTTCTTTTNAAGGGATTCA
 ANTTCTCNAAAGGAANAACACTGGGGACATTTTGGGGGCATGAACCTTTTAAAGNGGNAACAGCC
 CAAACAGGTCAATGTNTTN

SEQ ID NO: 1175 GGTACTAGTCAGTTATCCAGATTATCGAGTGTTTACCACATCATCTATTTTCA
 GAATGCTCCGAACAGTTTCAGTTGCAAGAGTCAGAGCACTGACTGATACCAACAGAGGCTGGACA
 ACCAGTTCTCCAAAATGTTGGAAATACCACCTTTCGGACATTAATGCCCGCAGTTTTTTCTCCCT
 GGGCATGCCGTTTCTTAGTTCTGTACTGTAGAAATGGGATTCAGGCCGGCATTTCAGCTAGTG
 TAGATGGAATGACCTCCATAGCATCTGCAAAAGCACGAACGCAGTAGGATTCCATACCACTCAGT
 GTTCGTGAATATTCAAGTTAATCCGTAGGGCCAACTCTATTTCTGGAGCACCACCTNCTGCAATAAG
 AGCCCTCTTCTTACTAAACAACGAATAACACATAGGGCATCATGAATGGAGCGCTCACTTNTTCA
 ATCACCAGTTTGTNGAACCCCGAACCAACAATTGGAAGTGGTTTNCAGGGCTGGGACAAGCC
 CTGGAATCTTGAGCAGTTGG

SEQ ID NO: 1176 GGTACAGAAAAGCCCAGATTTAAATACATTTAATATGTCAATTTTAAAAATGA
 TTTTAATAATTCATTTCTTAAACACTGAATGAATTTGAAGCTTAATGTTTTTAAAGGCATAGTTT

TATCTTTGACATCTAATTTACCATCAAGTTGTAAAATTATTTGGAAAAATACAGAACTCGTTTTATT
TGTATACTTATATGGAATCTGCATGTGAGGTGTTTGAGGGCATATGTTTGAAAGAGGGAGCATCAC
CACAGGAATCCTTTCTGTGAGGTGGAAACAGTGGTCTGAATCATTGTGCTCACACCTAACTTGAA
ATCTGGTCTTACTTTTCATGCTGTTATGATTTACCTGGTGAATCAAGTGTTTAAATAAGAAAGGN
AATAGTTGGTAANGCCCATGGTATTTAAATGAAAGTAGTTAGAAAAAAGCTCTCCTATTCTACCAA
ATTTTAAATTCTTTCTTCCCTTCTTGCTACCCAGNGATCAAGAGTTTCTCATAGGCTTTNAANTNN
AAATTTGTNT

SEQ ID NO: 1177 ACGCGGGGAGGCGAGGCAGGTTCCGAGGTTGGAACACCTGGCGAGTCCTCG
GTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTCAGAATTATAAGGCTGTCTGCAGAGATTTGAAA
AATGGCAACAAATGAAAGTGTGAGCATCTTTAGTTGAGCATCCTTGGCTGTGGAATATGTATTAC
TTTTACCTGAGAATCCTCTGCAAGAACCATTAAAAATGCTTGGAACATATGTTGAATAATTATA
CAAAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTTCATGAAGCCCTTTATTTCTTATTCTGTTT
ACCTGGATTTTTTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAAGGATAAGCCAG
AGACATGGGAAAACCAATGGAAGTGTTCAAAAGTTCTTCTTTAATCACTTCTGGTATCCACTG
GCCTTTGAATTGGGGGAACCTATTATTTCCNGAGTATTTCAATATTCCTTATGATTGGGAAAGAA
TGCCANGAATGGTNTT

SEQ ID NO: 1178 GGTACACACCAGAGCACCACCTCATTGAGGCTGTGCTCCTGTGCTGCTGGAT
TTATTCCCATCCTGGAGAAAACCTGCACTGGAAAGGGGATGGAGCTCGACCCACCACCCATG
TGATGAGGTCTGCGGCTGATCCTGACCCACATGGAGCCAGAGCACCAGCTTCTTTTACGCAGGAC
CTACGCAAGAAACCTGCCGGCTTTCTGTGAACAGGTTGGGGATCCTAACTGTCCGGCACTTAAAGA
GGCTGGAGAGAGTCATCATTGGTTATCTGGAGGTTTATGATGGACCTGAGGAGGAAGCTAGACTG
AAGATATTGGAAACCTAAAACCTTNTCATGCAACATACTTGGCCCAGAGTTTCTGCGAGACTTGTG
GTCTTACTGAAGGCCCTCTTGAAACTGATTTTGTGATGTAGCAAGGGATCCAAACCTTACACCTGA
GTCTGTAAAGAGCGCCCTGCTACAGGAGGCCACAGACTTCTGATTCTCCTGGACCGCTGTTCTCA
AGGACGGGTAAAGGGTCTCCTGGCCAAAATTCCCCAAAGCTGTGAAGACAGAAAAAGTNGGTG
AACTATATCAANAAAAGTGAANCAGGTTTNTTAANGCGGCACCCCTTNCAATGGGAACTTAAG
ANCTTGGTATTACTTTCCCAAGAAGAAAANGGATTTTTTCCCNTCCCATTTTGGATGAATGGNGTT
ATTTAAAA

SEQ ID NO: 1179 GGGTACTTTTTTTTTCTTTTTTTTTTTTAGATGGAATCTCACTCTGTCTCCAGG
CTGGAGAGCAATGGCATGATCATGACTCACTGCAACCTCAGCCTCCTAGGTTCAAGCAATTCTCCT
GCCTCAGCCTCCCAAGTAGCTGTGACTACAGGCATGTGCCACCATGCCAAGCTAATTTTTTTTTTTT
GTATTTTGGTAGANACAGGGTTTCACCATACTGGCCAGGATGGTCTTGATCTCTTGACCTCGTGA
TCCACCTGCCTCAGCCTCCCAAGTTCTAGGATTCCAGGCGTGAGCTGTACACCCAGCTTCAGTG
AGTTTCTTAATTCTGAGTTCTAATTTAATTGCACTGTGGTCTGAGAGACTGTTATGATTTCCGTTC
TTTACATTTGCTGAGGAGTGTTTTATTTCCAATTATGGGCAATTTTAGAATAAGTGCTATGTGGTGC
TGTGAAGAATGTATATTCTGCTGATTGGGGTGAANAGTTCTGTANATGTCTATTAGGTCCACNTG
GTCCANAAGTGAAGTCTGAATATCCTTTTTAANTTCTGCTTCATTGANCCNAAATTGGA
CAGGGGGGGNGTTAAAANNNTCCNCTATNATTGNGTGGGAGGCTAANNCTNTTTNNANGGCCTTN
AAAAAACCTTGTTTTATGAANNNTAACCTGCCTCCTATATNGGGGGGCATGTGTATTTTAGGA

SEQ ID NO: 1180 ACTCTCTGAGCCCAATATACAGAGAAAGGAGGAAAAAAGCTAGAATTCTATG
CATTACTACACAGGGGCCTAGCACCCCTCAGCTTCCAGCAGAGCGAAGGGAGCAGGTTTTTCTTTT
TTCCACAGAGCTCGGTGGTGTGATTCCATACAGTTTTTGTTCAGACAGGAAGGGATAAAAAATGA
ACTTCGAACAGAAAGGGGTAGAGACTCTTTTCCCATTGTATTCTGCTCAAGGTATTTCCCCCAAA
TAAATTGAGAACCATGGAGTAGAGAAAAAGAGACCTCAAGAACAGGGCGACTGAGCACAAGAGGG
AAAAAAAAAANAANAAAAAAGACTGCAACTTGCTCCCAGGGACTGGAGAAAAATTTAAAAA
GGAAGGTTGGAATCCATCAGNGGTCTATTTAATCATCTTCTCCTTCATTCCTCTTCTTCTTCC
CCTTNATCATCATCTTNATCTTNTTACCTTNATCCTTNATCCCCTTNTTGGCAATATCTTCTAATCCT
TCCTCCTCTTNATNATNANN

SEQ ID NO: 1181 NCCGAGGTACGCGGGGAGAAGCTTGGACCGCATCCTANCCGCCGACTCACAC
AAGGCANGTGGGTGAGGAAATCCAGAGTTGCCATGGAGAAAATTCCAGTGTGAGCATTCTTGCTC
CTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACAC
AAAGGACTCTCGACCCAACTGNCCAGACCCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGA
CTCAGACATATGAAGAAGCTCTATATAAATCCAAGCAAGCAACAAACCCTTGATGATTATTATC
CACTGGATGAGTGCCACACAGTCAAGCTTTAAAGAAAGTGTGTGCTGAAAAATNAAGAAATCC
AGAAATTGGCAGANCGGTTGCCCTCTCAATCTGGGTTATGAAACAAGTGTGACAAACACCTTTCTTCT
GATGGNCAATATGTCCAGGAATATGTTTGGTGCCCATCTTTACAGNTAGAGCCCATATCACTGGA
AGAAATCAAANCGNCTNTATGCTTACAACTGGAGATCAGCTNTGTGCTTGACANTGAANAAAC

TTTAAATGCTGAAACCGAATTTNANAAAAAATTCAANCTTTTTTTTA

SEQ ID NO: 1182 ACAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAATTCTT
CCATGCTGGGGCTGATGTGGGCTAGTAAGACTCCAGTCTTAGAGGCGCTGTAGTATTTTTTTTTT
TGGCTCATCCTTAGGATACTTCTTTAAAGTGGGAGTCTCAGGCAACTCAAGTTTAGACCCCTACTCT
TTTTGTTGTTTTTTTGAAACAGGATCTTGCTCTGTCAACCCAGGCTTGAGTGCAGTGGTGCGATCACA
GCCCAGTGCAGCCTCGACCACCTGTGCTCAAGCAATCCTCCATCTCCATCTTCCAAAGTGCTGGGA
TGACAGGCGTGAACCACAAGCTNCCAACCTAGGCCTTAATCTTGCTGGTATTTTCCATGGACTAAA
GGTCTGGCATCTGAGCTCACGCTGGCTTACACAGCTNTAAGGGCTGNTCCTTTACTCACAATGGGT
TTGTGAAGCTCTGTGGCCCAACAAAACCTGCTATNTGAGCCAAAATTGCAAAAGCTTTTTTANNCC
ACTGGCCTGAATTACCTGGAAGCCAATTGTTGGACCCCGGTTCCAAACCTTTTGCTGGTAGGAAA
GNTTANACNCCTAATTACTTTTT

SEQ ID NO: 1183 GGTACCTGAGTGCTCTTCCCATGGTCTCATAATTCATATCAGGTTTGTGTTTTGT
GCTTCCCCCACAACCTGGACACTGCTTTAGAATCCACCAATTTAAAAATGCCTTTCTCTCGCTGGG
TCCACTTGATGTATTTAGGACAAGTAGCCTTGTCTGGAGCAGTGCCAGTAAAAACTCCCAAAGAT
AAATTGTGTTTCCCTTTCCGTCTTTGTTTTTCTTCTTACAGATATATTTGGCGTAGTGGCTGGGGA
ATCTGGTCGTGGTGGTTTAGTTTTTCTTCTTTTTTCTCTTAGGCTGTTCTGGTGATGAGGCTCCCG
GTGAGTCTGCATATTTTCTTGACCTGTGTGTTCCACTCACTTCAGGAATCCCATCTAATGTGAC
GGACACATGGGTGACTGGGGCAACAACCATCTCAGGTGAACATAAATATTATTATTAT
TCGTTTTICATCCAGCATAGGGCCAGGGGGAATCCATATTGAGGAGTGCCTCAACAGCCTCAATAA
GTTTCAATTGTTTCATCCCCCGTCATGGCAAGAAGCTTCAACTGTAANGGTGATGTCATCATCATC
GCTATGAATTCTTCTTACCACATNCANTGAACCTCAGTAATCATGTCACTGGGCTCTTCCCACA
NGCTTANACCGCNTAACTATTGNGAAATATCAGCCCNNGGAACATGTTCCCAATTACCG

SEQ ID NO: 1184 GGCACTTTTTTTTTTTTTTTTTTTTTNNATACTNTTNTCANTTNAAGTTTAAT
ACCAACTNCNAAAGATTAATGGGTTGCTCTACTAATACNTCATACAAACAGNAGCCTGCCNACA
ACGCCAANTNAGGCCNTTCTACCAAANGAAAAAGGCTGNTCTNTCCNCCCCTGTNGGAAAGG
CCTGCCTTGTAANACACCANANTTCGGCTGAATCTGAAGNNTTGNGTTTTACTAATGGAAAAAA
AANTACCNAANAGGNTTGGTNTNATGGCTGCCNCCGTANCCTGGCACTAAAACAGNCNAGCGC
TNANTTTTGCTTGAAAAATATNTTGTCTNTTTTGGACATCAGGCTTGATGGTATCACTGCCNGGT
TTCCAGCCAGCTGGGCNCACTTCCCCATGTTTGTCATTGAACTGGAAGGCCTGAACTATTNTCAA
GTCTTATCCCAAAACGGCCAACAGGGAGGNCATTTACAGTGATCTGCCCAAAAAATACCCCTATC
ATCGATGATTAAAANGCCNTGAACCAGATNCCTTNTTNAACCCTTTAAACCCCATATCCCTNA
NCAATGGTGCCNCTTCNGGTNTGAATCCAAAAAGAATGTTGATTGGGTCCCCAGCCCCCTTGGNNT
TTAAGNGTTTTGGGCCCTTGCTTTATTGACAAAAAGGGGAANAATTCCCCGNNGCCCNATNCC

SEQ ID NO: 1185 GGTACTTTTTTTTTTTTTTTTTTTTTTGGGCATAAAGGAATATAAACTATTTA
TTAACCAGTGTTCACCAGTATTTACAATAAAGTAAACAATATACAGTTGGATAACATTTTGATTAC
TACAAAGTTGTTCTTCTGGCTTTTGCTGAACCAGTAAAGCAAACTCAANATTGAGCCTCCATGTA
ATGAATTGGGGTAAAGAAAAAACATGCAGGTCAATAGGTTAGGTTACAAAAGGTTGTTACACAT
TTATGACAGCAGGTCTTAACTGCCAACACCTCTAACCATCTGATTAGGTTTCTATGAGCCAAGTC
TTACATATTCATTTCATCATGACCTTTTAGTCAATGTAGCAACAGGGATTCCAACATTTTGCTAAG
GAATGGCCCCGTAGGGAACTTTTAAATGTTCAATTAGCACTAGTTTTGTTTAGCTAGTTAAACAC
ACTAACATTTGTCTAGTTTCCTCATCTGGATGAGGAAACCNGCTGTGATGGCAGTGATAAAATTTT
TCCTTTTAGGAATTTTGCAAAATNAACCCACTGCAATTTATAGACACTTTAAAAATTTTCCAATTTA
AAATTGNCCNTATNTAAAATTACTTATTTTACTTTGNAATGNTTGGNTTCNGGAAAAATTTTCAA
TTTTTACCTTGGAANGGATTATCCTCTTATTTTGNCTTTGGGAAAAATGGCAATTCCTN

SEQ ID NO: 1186 ACCCTTAAACTGGCAGGACATTTTTGAAATCACAAATTTGCACATAAAGAAT
GTCACGAACAGCCATGTATCCATATACAGCAATCAAATAAGGAACTTATGACCTAAAGCAAAGGT
AACTTTCTTGAAACTTAACATTCTATACCAACTAGGCAACCTCTGCCAGGATGAGAGTTGGATT
TTTCAAAAACCTCTAATTTAATAGTGCAGCATTTTCGTTTTCCCTGATGGCCTGTGTTTACAGCAGT
TTTTAAAGACTGCTTGTTCAACTATAGCTGCAGCCTATATCCAGCTATGGAAAAAAAAGTAAATC
TTAGTTCAATTTTTGCCAGTTGTTTCTGTATTTAAATTTAAAAAAAACACACTTCCGCTGGGCAGG
TTTAGAGGTTTATTATCAGTCTGTGCATAACTAAAAGTTCAAAGCAAATTCATTTTGCTTAAGGG
AACATTGTAAAGTAACAATTCTTGGTATTACATGCCTCGTATGATCCATTTCAAACCATAGAGAAT
TACACCTTTGTGTCACTGTTTCAAGAGACAAACAGATTTTGAACAGCTAAAACATCTTAAAAATGC
ACCAAGCTTATGAAAGTCTCAAACAAAACCTGAATTTTCTGTACCTTNGGCCGGGACCACGCTTA

SEQ ID NO: 1187 GGTACACAGCTTAAAGCTATAGGTTGCAGCTTGGCTCTATCTGCTGTCTCAAT
AACAGCCTTTGAACTGTCCACGTATCTTAAACCTTCTGCATATTTTTTAATAGCCATCTCCCAGTTC

TGGGATTTGAAAAAAGTATTTCCAATGTTTTTTAAGTCTTCTGTTATTAATAAAAATTTTATCTACAT
CTTTTAAATCTATATCCGCATCCTCAGGGAAATCTGGATGACTGTCGCCAGAGCCATCTTTTGGGA
ATATTCCCCCGTCATCTCCTTCCTTCAATTCCCCACATTCTGCAATAACGCACAATTTAGCAGGTTT
TTCACCTTTCACCTCCACATTTTCCAATATCCTTGCCACTCCTATTCTTTAATTACTTGGCCAAACA
CCACATGTTTCCCATCCAAATGAGGAGTTGGAAGTGTGTGATAAAAAACTGGAACCGTTTGTGT
TGCGGCCTGCATTTGCCATGCTCAGTAAACCTCCCGATCATGCTTGTAAATGGAAATTTTCATCTTC
AAATTTTTCACCATAAATACTTTCTCCACCTGTCCCATTTCTGATTTGAGAAGTCTCCACCTGAATC
ATAAACTTCTTAATAAATTCGATGGAAAANGGCATCCCTTTGAAATGGGAGAAGGTTCCCAAGTCN
TGTGTNCAATGGCCCTTTTCTCCTGTACCTCCATGAANAAAGCCCTAGTCTGTGNAAAAAGGGG

SEQ ID NO: 1188 GGTACCTTTTGTGTTTTACTTCAGTGAGGAGATTGGAGTCTGAATGGATCTGT
TTTCCAAGAGATTCTGAGAAATTTTGTATTTCAGCAGTTGGAAAGCTCTCTATTCTAGTTGATAAA
ACTTCCCTTTTGTGATGTAGATGCAGATATTCTATACAGTTCTGTTGTCTTTTACTAGGACTGTAAA
CTTTTGTGATAAAATTCAAATAAGATTTTATTTCTTGGAATTTTGGCTTTCACAATTTATCTTTAA
ATCCTTGAGCAATCTGTATAACAATTAAGAGATTTCTGACATTTATTCTTACACTAAATGGATCAAC
TCTAGGATTTAGGCATGTAACTTCTGTTGTGTTTTGAATCTCTCCANGAGTTGCATGTANATAGCA
TTTATTTCTGTGCCCTTAAACCCATTTAGAAAAATACTACCAAAGTAAAAATGTAGAGGAAATAGG
AAATGTATTTTTCATGAACATTTTGATACAAATTTTCATCATTTAATGATTACCCANTTTCTTGCAT
TTAATTTGAATTTAAGCATTTAATTCAAAGAGGAGGGGGANCCATCCCATTTATTGGATACCATGNT
GGGCTTTTAAAAAACTTCNTTCCNTTTATTAATAGGTCAAGGTNTTGGGCCNCACCAAAAGTATA
TTTTTINTCANNGGANAAAAATTCNAACNTCCCNAGCCCNATGNTGGAAAAAGAA

SEQ ID NO: 1189 GGTACATGACCTAATTTTTACATCATAGTAAACAGGCCCTATGGAGAGAGG
ACATGGGTTTCTCTGCTGAACAGCCATTATTTATACTCGTTCCAAGGCTTCTAACATGATGATACTA
TTTCTCGTATTACCACCATTCGAATATTGTTCTGTTGTCCACTAGTCGCCATCTCCACACATTCAT
CTATCACAAGGTTTATAAAGGGATCAAATCCCCGCAATATTCTTGGACATGTCTGCCACCATTTA
ATTTCAATGATAACTTCTTGTCCATAAATTTTTTCAACTCGGGAGGGTGAGCTTGTCTCATGGTGTA
TACTCCGCGGGCTCACAGATGCCTTGGAACGCAACGCACGGCTTTCCTCCCCGCGT

SEQ ID NO: 1190 AGGTACCACGCTGGTCTAATGCAAAAAATGGAGATTGCTACAAAGGACCCTTT
AAACCTTATTAACAAGATGTGAAAAAAGGAAAACTTCGCTATGTTGCGAATTTGTTCCCGTATA
AAGGATATATCTGGAACATGTTGCCATCCCTCAGACTTGGGAAGACCCAGGGCACAATGATAAA
CATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAATTTGGAAGCAAGGTATGTGC
AAGAGGTGAAATAAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAGGGGAAACCG
ACTGGAAGTCAATTGCCATTAATGTGGATGATCCTGATGCGCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCCGT
ATGGAACACAGAAAATGAGTTTGCCTTTAATGCAGAATTTAAAGATAAGGACTTTGCCATTGAT
ATTATTAAGGCACTCATGACCATTGGAAGGCAATTAGTGACTAAAGAAAACGAATGGGAAAAN
GGAATCAGTTGCATGAATACAACTTTGTCTTGAAAACCCCTTTCAAGTGTGATCCTGATGCCTG
CCANAACNNTTNTGGATTGCTTTACCCCCCCTTGTTGGAATTTGCCTTGCAAAATACCCTNCCCGG
GGCGGG

SEQ ID NO: 1191 ACGCGGGTGGAGCATGTGTATTATGTGGCCAATGTCTTCACTCTAACTTGGTT
ATGAGACTAAAACCATTCCTCACTGCTCTAACATGCTGAAGAAATCATCTGAGGGGGAGGGAGAT
GGATGCTCAGTTGTACATCAAAGGATACAGCATTATTCTAGCAGCATCCATTCTTGTTTAAGCCT
TCCACTGTTAGAGATTTGAGGTTACATGATATGCTTTATGCTCATAACTGATGTGGCTGGAGAATT
GGTATTGAATTTATAGCATCAGCAGAACAGAAAAATGTGATGTATTTATGCATGTCAATAAAGGA
ATGACCTGTTCTTGTCTACAGAGAATGGAAATTTGGAAGTCAAACACCCTTTGTATTCCAAAATAG
GGTCTCAAACATTTTGTAAATTTTCATTTAAATTTGTTAGGAGGCTTGGAGCTATTAGTTAATCTATCT
TCCAATACACTGTTTAATATAGCACTGAATAAATGATGCAAGTTGTCAATGGATGAGTGATCAACT
AATAGCTCTGCTAGTAATTGATTTATTTTCTTCAANTAAAGNTGCATAAACC

SEQ ID NO: 1192 ACAAAAAGATGTTGGAGTCCAGTAAGCCCATACCTAAATTAAGTAAAGCTT
CAAGGACTTTTGTATTATTTTATATACTAGTTTCTTCTGTGACAAGTTGATTTTATCTCCAAGACT
TAAGGCCATTCCCTGGCTCTTTGCACGAATTCTTATATGGCCGGTAACAGCAGCATCTGGTCCCTG
GTGAATTTGGCTTCTCAATGCTGACATTTGCAAGTGCATCTTACCAAATATGGAACGAGCATAAAG
GTTGGCTGCATAAAGCCACAGTAACCAGAAAGGGCCCTTTCTGGAGTCAGGCATTTTCATATTGGT
TGACTTTAATATGTGCTGTAAGTAGTCATTTAAATCAACCATGTTGGTGTTAACTGTCATTTGTTT
TCCATTCAAATTCGGCCACATCTGACGGAATTTCTGCANTGCAAGTTGCAGGCTGGATATAA
GTCCATGATGTGATGTGAATATCACTGGAACCAACAATTTCTGTCACTTGCTGCTCCAGAAAC
ATCATAAACTATATTACCAAAAATTTCCATTTTCTGTTGATGCTACTTTGACGTTAGCTTTAAT
ATTTGCGAAAGTCNTGAGGAGCAAGANTCAAAGGAGACNGNTTTTTTACAAGTTTNANATCCCC

TANTGGNACTAGNTTCTAANGNGGCAATTCTGCAAAATTTCACTGGTTTTGGGT

SEQ ID NO: 1193 ACGCGGGGCTTGTAAGGTGCGGCTAGAAACTGGGGACATGGCAGCGCCTGGC
CCAGCGCTCTGCCTCTTCGACGTGGATGGGACCCCTCACGCCCCGCGGCAGAAAATTACCAAAGA
AATGGATGACTTCCTACAAAAATTGAGGCAGAAGATCAAAATCGGAGTGGTAGGCGGATCGGACT
TTGAGAAAGTGCAGGAGCAACTGGGAAATGATGTGGTTGAAAAATACGATTATGTGTTTTCCAGAA
AATGGCTTGGTAGCATACAAAGATGGGAAACTCTTGTGTAGACAGAATATTCAAAGTCATCTGGG
TGAGGCCCTAATCCAAGATTTAATCAACTACTGTCTGAGCTACATTGCGAAAATTAACTCCCGAA
GAAGAGGGGTACC

SEQ ID NO: 1194 GGTACTTGTTGTTGCTTTGTTTGGAGGGTGTGGTGGTCTCCACTCCCGCCTTG
ACGGGGCTGCTATCTGCCTTCCAGGCCACTGTACGGCTCCCGGGTAGAAGTCACTTATGAGACAC
ACCAAGTGTGGCCTTGTTGGCTTGAAGCTCTCAGAGGAGGGTGGGAACANAGTGACCGAGGGGGC
AGCCTTGGGCTGACCTATGACGGTCAACTTCGTCCCTCCGNCAAAACACCCAATGAATGGTGCGGG
TATNATAANACTGACAGTAATAGTCAGCCTCGTCTNAGTCTTCANTCCANAGATGGTAANGGAG
GCAAGA

SEQ ID NO: 1195 ACTTAGCATCGGAACTGCAATGTTAGGAGCAGGGTTGTGTGTTGGATTTGAC
ATAGATGAAGACGCATTGGAAATATTTAATAGGAATGCAGAAGAGTTTGAGTTAAACAAATATTGA
CATGGTTCAATGTGATGTGTGCTTATTATCTAACAGAAATGTCCAAGTCATTTCGATACAGTAATTAT
GAATCCTCCCTTTGGGACCAAAAATAATAAAGGGACAGATATGGCTTTTCTAAAGACTGCTTTGGA
AATGGCAAGAACAGCAGTATATTCCTTACACAAATCCTCAACTAGAGAACATGTTCAAAAAGAAAG
CTGCAGAATGGAAAATCAAGATAGATATTATAGCAGAACTTCGATATGACCTGCCAGCATCATAAC
AAGTTTTCACAAAAAGAAATCAGTGGACATTGAAGTGGACCTAATTCGGTTTTCTTTTAAAGCCC
CGCAACAAAAAGTCGTTTTAAAAACCTATTTAAAAATGAATAAAAAATGGTTTTACCGANAAANAT
ATNTTNTANTNATATAATNGNTCCCCGGGGCAGTTCGGGCGGTCCCCGGGTCTGTCTTTTGC
TTTNAANAGGTGTTTTGGANCGGAAACAAAATCCCGGGGACTTTTTTTNCAGNCTTCNGANCGCCC
TTCCGATTTTCCNTTCCCNNTTGNAACCTCCGGGACCATTTTTTTNGGCATNCTCCTTGCTTTT

SEQ ID NO: 1196 GGTACTTTACTGAAAGAACACTAGTGTTCTTTCCTTTCGTTGTGAAAAAGT
TGTTTCTGAGGAATTGAAACCCAGAAAGATAACTACAACAAAAACATGTTAATTTTTTTTTAAAAA
TGATGATTCAAAGGCAGATTTGAAGGGAAGTAATATTTAGGTGGCAGAAGAAGGCCAAATGCAGCC
TCTGAAGGGAAGTGTCTAATTATTACCTAAAAAATAAAGTTACACAACCTATATTCAAGGACATGA
GATAAAGCACTGCTTGAAAACCAGAAATGACTGAACAGTTAGGTGAAAAGGAACACTGAAATAGG
AAGGGGAAATGGACTGAAGAATAATTTGAATCNGGGACAGGTGATCCATCAGTCCTAGATGCCT
TCTGGTATGGAAANTATCTTGGAATCACATTGTTTCTTCTCTNNGAAATCTCAAAAGGAGAAT
TCTTCACANGCACTNACATTAAGGTTGCCATTTTGGTNAGGATTCAAAAATTTCAATCCAGTANCT
TCAAGANTNTGAATAAATGCCAGGCCTTTNATTTTTACCCATNATAAGGGTTTNTCCACAAAATT
TGACTCCAGTTTTTTTAAACCTTTTTTACAAGCCCTGNTTTTNTNAGGAAACAG

SEQ ID NO: 1197 GGTACTGATTTCCATCGTTGCATTTACAACCTGCTACAAAAATGCCAGCACTCC
ATCGACATGAAGAAGAGAAATCTTCTTAAATGCCAAAGGCCAGAAAAGAACTTTACCCAGCATA
TGGGACTCACCTACCAAACTTTCTGTGCTTGTGCCTTCATACAAATGAAGAAAAACGGTTGCCT
GTGATGATGGATGAAGCTCTGAGCTATCTAGAGAAGAGACAGAAACGAGATCCTGCGTTCACTTA
TGAAGTGATAGTAGTTGATGATGCGAGTAAAGATCAGACCTCAAAGGTAGCTTTTAAATATTGCC
AGAAATATGGAAGTGACAAAGT

SEQ ID NO: 1198 GGTACCAAGGGATGGAAGAAGTAAATATAGCTCAGGTAGCACTTTATACTCA
GGCAGATCTCAGCCCTCTACTGAGTCCCTTAGCCAAGCAGTTTCTTTCAAAGAAGCCAGCAGGCG
AAAAGCAGGGACTGCCACTGCATTTCATATCACACTGTTAAAAGTTGTGTTTTGAAATTTTATGTT
TAGTTGCACAAATTGGGCCAAAGAAACATTGCCTTGAGGAAGATATGATTGGAAAATCAAGAGTG
TAGAAGAATAAATACTGTTTTACTGTCCAAAGACATGTTTATAGTGTCTGTAAATGTTCTTTTCT
TTGATGCTCTGGCAAGATGCTTTAGGAAGATAAAAAGTTTGAGGAGAACAAACAGGAATTTCTGAA
TTAAGCACAGAGTTGAAGTTTATACCCGTTTACATGCTTTTCAAGAATGTCGCAATTACTAAAGA
AGCAGATAATGGTGTTTTTTAGAAACCTAATTGAAAGTATATTCAACCAATACTTTAATGTATAA
AATAAATATTATACAATATACTTGTATAGCAGTTTCTGCTTCACATTTGATTTTTTCAAATTTAATA
TTTATATTTAGAGATCTATATATGTATAAAATATGTATTTTTGTCAAAATTTGTTACTTAAAAATA
NAGAGACCAAGTTTTCTCTTGGAAGTTTGGTTTAAATGACANNAAGCCGTTTTTGAATTTCAANAA
A

SEQ ID NO: 1199 GGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTCAGCATTGNGTTTTACTTTTT
GGGANANAGGCTAGGAGGAGGAAGGGGTGAAAACAGCGTCTCACTGGAGTCTCAAAGTGTATG

AATCTTCTGGTAGTGCAAGGATGGGATAANATGGCCAGGGAAGTCANATGGAAAATCCCCAANAT
TCTTTTGTCTACTGATTTCTATAATTAATATGACATATGTAAGGGACTAGTGCATGATATTCAAT
AAATGTCAGTTGTCTTTCTAACTAGGTTCTCACAGGCTAGGTTATGCCTANATATCATCATCCTC
CTTTCAGGGAATGAAGCTCACCTANAAACTAGGGAACATAAAAGTGCAATATGGTTTGGGTAATG
CGTTTGGTTAGCTGTCTCCCATCCTCCCACTCAGTATTCCAGGGAGGGGCTGAAAACANAAGTG
GCTCCCCTGAAGTCTANTTAGCATGTCTAGACAGAATCCACATGAAGGGCTGTGGGCTGCAACTTT
CTAGTGCCACAGTCTCTTTTGGCGATGATAATTGTAGGGAAAGAANCCCCNCACNCATGCTTG
ATTTACAGAGCTGTNTTTCAGGATCTTAACAACCCTTGCTGNGCTCANTTTTTGGAAATCCCCATTA
TTCACAGCTTNGAACTTNTCCCTTTCTTGCACTCTGCTNTTTTGTGCCTCAAANTCAAGGA

SEQ ID NO: 1200 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAAAATTATTTTATTTTATAATTTT
CTAACACATGGNGTTAGAAAATGAATTTTGGCACCGNGATTAANAATTTCTTTTCAAGTTTAACCT
TTACATTAAAAACAGTAGCTACAATAAGGATATTTCAACCTTACTTAGAGAAGTGATAAAACATC
AAGTCAACAAGTATTTTGTGGAGAATTTTTTATAAGCGGGATAGAGGGAAGTTAACATAGAC
ACTCAGAAGAATAAAATGGAAATTATGCCAGGAAGATAAAAAAGCAAATAACCCTCCCCCAAA
AAAAGAATAAGGAGCGAGACAAAGGGCAAAACGGAAGAAGCAAGGCTCAACAACCTTGTTTTCC
TGATATAAAATTCAAGTACC

SEQ ID NO: 1201 ACGCGGGGTTTTTACTTGATATAAATGTATTTTACTGTGATAGTCCAAGTG
CCCTGGGGGGGAGGTGTGCTCTATGTGGTTCTTCTTCCATTGGAGAGCTGGCGTAGAGATCTGCA
GTGTTTCAAGGATGTGGTTTGGAGATGTCTGCTAGGACCTGGGGTGTGTGACTCAGTCCAT
ATATAGGGACATCTGGGTGGAGGAGTAAATTCCTGTGCTCTGAAATGCCACTTGGTAGCTCTGGAC
AATGAAGGACAATTGACTCAAGGGTGCCTGACTTCTGCTGCTGCTGGGAAAAAATTCAGTTTATA
GCATTCTGCACCTCCCAAAGTAGATAACCTGGAGGTCAATTCAGTTAACAAGTGTCCCTGAGGACT
CAGTTTTGGGGGAGGGGTATCTGGGAGAACTTTAACCTGTTCTGAGCCATTAGGAGACATTAGTG
AATTGGAGCACTGGAGAATCCTACAAATGGCCTATGTCTCAAAAAAGCTGGGACCTCCTTCCAG
CTGCTGCAGATGCTGACCAGGCCCTGGGAGGCTGCTGTGCTCTGGAAAAAATTGGACCACTCATTT
TNTTGGCCTAACCTGGCTGCCTTAAAAAAGAACCAGTCAGGACTTTGAAGGGAAGCATCAAAAT
CTATACCCATAAACCTGNAGTTTGGGAAGTCAAGCNTTTTNGAAATGTNCACCTTTGNCCNNTTGT

SEQ ID NO: 1202 ACTTTAGTAAAGACATTCATCTCAGTCATTTCTCTCTCCAGCTTGACCTTAG
GTTAATATTTTCAATTTGGGTCAAGAAAATAATACGTAGGAGAGGTATGTTATTTTAAACAAACAGGA
AAATGGACAAAAAATTGATAGTTTGCCTACATTAAAGTAAGTTAAATTCATGTATCGATATAATTA
AATCATGTAAGAACTAAGAGTTCTATATACATTTCCATTGTCTTACTTGGGCTTATTCTAAACTTAA
ATGCTAGTGAACAAAGTGTTAGGAATATACACAGGCTGCTTCTCTGGAGTTATTACCAACTAAAA
GACCTCAGCAAGCAGCTACCACCAATAAAACAGTCTGAAGCTGCCTCCAAATATAATATTGTAGG
AGTTTTCAAGGAAATTTTATACTGTATGCTTTTGTCTGTGACTATGCTTTTAAAGATGTGTTTAAAC
TGTCACATTTTAAAAAAGTTTATATACAATACAAAAAATCAAAACAAACACCCTACAATACACAAA
TCTAACAAAGTATATGTGGTGAGATTCCAAAAAATGTTTGAAGATGCATTTTCTTTNCTTCATTTCA
GNATCTAAAATGTGCCTTTTCAGAAGCCCATTGGTCAATATGTACCTCGGGCGG

SEQ ID NO: 1203 ACTGAACACAATATTTGTGTTTTTATTATTTATGCCACGTCAGTGGGGCAAGA
AATCTGGAGTGAGTGAAGAAAGCTAAGTTGTGAACAAGAGTGTTTTTATAGCATATGTGTTGAAG
TAACAGCTTGTGCCCAGAGAACTTAACAGATGAGTTCTTGAATCTGGGATGAGATGACGGATGTA
AATATTTCTAAATTTTAAATACTACATTACTTGGTGTCCTTTTCTCCCAAACCTTATTAGAAAT
GGAAGGAGTTCAATTTTTCTTGTCTACTTTCCCTATTCTTATGGAGGTAAAAGGAAAGGAAGGA
AGGAAAAAGCAGCTTTCACTTACAAAGTTTCGTGTAAAAATATCTTTTTTCTTAAATAACTCCATT
CATACAAATTGGGATGGGAAGAAAATCCTTTCTCTTGGGAAAGTAATACAAGTCTTAAGTTCCAT
TGTAGGGTGCGCCTTCAGAAACCTGCTGCACTTTTCTGATATAGTTCACCACTTTCTGCTTCACAG
CTTTGGGGAATTTTGGCCAGGAGACCCTGAAACATGAACCNAACAGCTTTGATATTTTTTTTTTTT
AATTACTTTCCCTTTGCTTGGATTCTTNTTCTTGGNATCATATTCAAANGGAGGAAAGAATGGA
TGACACTTTAGGGGCCAGGTCACTAANCCAAAATAGGGATTANNTGGGTTTTTTTATTATTT

SEQ ID NO: 1204 GGTACTCACTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTTCTCTT
ACCTGNIATTTATCAATTTTCCCAGTATTTTATACGGAAAAAATTGTATTGAAAAACCTTAGTAT
GCAGTTGATAAGAGGAATTTGGTATAATTATGGTGGGTGATTATTTTTTATACTGTATGTGCCAAA
GCTTTACTACTGTGGAAAGACAAGTGTTTTAAATAAAAGATTACATTCCAAAAAATAAAAAA
AAAAAA

SEQ ID NO: 1205 ACCAAAGGATAGCTGTTCTGTTTAAAGTAGGGACCTCTCATGGCCTACAGGCTT
TGACATCTGAGAATCAAACCTGGAGAACATTCGGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCT
GGGCTGAAATGGAATGTGCAAATGTAGCCCAGCCTGGTCTTGGGTGTTGCCAGTTGATTGATGAC

TGGGAGCCAAAGTGGCATCTCCTTTGACCTAAACGGGCGATGATGAAATAAACTCAACAGCCTT
TCTCTCATCTTGCATTGTGAGATGCGAAATAGAGCGTGTCTCTCTGCCTCTCATTTTAGGCTGAGGC
CGTCCAAAGCGGCCATGCCCCATGTTTCCACTAGATGGCGCTGACACTTCAGGCATCAACCCCTCAT
GGCCTCTCAACCTTGCAAAGGCAGCCACTTAAAGTCGGTGTCTGTGTGGGGCACCAGCTGAGC
TGCAGACACCCAGTATGCGCGAGGCAAATGCGTCCCATTTTAAAGAAGCTTGTATTTATGAACTCT
TTGCTTTCTCCCTTCCACTAACTTTAAAGAATTGCTCTTCATCTCCTTTGGCAAAGTTCCTTTGCCCT
TTGNCTTATTTTTTGTGAAACCCTNCAAGGTATTTTCCAGTCCATTTTGCATTCAATCTGGCATT
ACCGGAAGCNGGGCTCATATGCTATTGGTGTAAACGNGGACTANTATTTATGTGTTTGA

SEQ ID NO: 1206 ACGCTTTTACCCCCACCCCCAAGTCCTGGGAGAAATGCAGGCAACACTGAGA
CATGGGAGAGGCCAAGATATGCTTGACAGAAAGGGTGATTTTGAGGCTCAGTTAATATTTCAAAA
TTGTAACCGTAGCAAACTGCATTGGTATTTAGAAAAATAAAAAATTCCAATATGTAGTGTCTGTG
TTATACCTGCCTCTGCCATGCAGCATCATAGCCTGTGGGAACCGGGAGGGCTTCCCTTACCACCCA
GAGCAGAGGAGGAAGGTGATGGAATATGGGGTGAGGGGAGGAACCTGGTGGCCCCCTCCCTGAGA
TGGCCAGAAAGCCCTTGGCCTCACCTGGGACTGACCAGGCAGCCCTAGTCTAGGCACAAGGTGCC
CTTTACCCCTTCATGGCTGTGGGAATATTTCTCTTACTCTTTTCTCCCATACAGCTACTGCCAAA
ATGCCCAAACCTTGGGCCAAATGTTGCCCAAACCTTNGGCCAAAAATGTTGCCCAAGAGACCAAGAC
ANGAGGAAAACAAGTTTCCAAATCTATGTANATCATGANCCAGAAATCTGAGGCTTGAATAAAAG
GGCTTAAANGGCAGGAACCTTTTGGGGGTGTCCAAAACAGACGCCCATNCCAANGACTTCCATT
GGAATNGGGGGGGAAAGCTTGGTANGGTTTNAATTTTATCGNCNATTTTAATAAAATTTA

SEQ ID NO: 1207 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTNAAAAATAATATTTAAATT
TATTGTTTCACATTAGTTTGAATAAAGCNCANCCAAGATGGTTTAAATATCATTGTCANATGTCC
AANCTTNTTTACAATTACAGGTCATGGGCATCATCAACCTAGTCCTTGACTTGCAGCTAAAAAAGG
CAAAAGGTCTGTGTGAAGTGACANANANCNCNCCTACTCATGTGCATGANCAAGGAATCAAAGT
CGAANAACAGTAACAGTCTTGACATCAGCACTGTAANAATTACTCTGCAGTAACTCCAACCCAA
AATGGGGAANAATACTGAATTAGCTGAACACATTCTGGACACAATTCTGACCAATTTTCAGTCTCAT
GATCTCTGTTGGAGCAGGTTTCATTCTCCAATTCTCTTTTACANAACAGCAGAACTCGAGCCTTCAT
AAAAAGNGATTAACGGCCTTTCCGCTTNTTCATTTTCTCTCCAGCCACCTTGTTCTGACACCAATT
ANACCCCTCTGNGTCATNATTATNTTCANNATCCTTTTCGCGAGCGTTTTTTTTTTCTNCATGTCTCC
CTTAACCTCCATTNGGGGCAAACCTTTTGGGCTTTCAACNAACCCGTTCTGTCAACANCANAACCT
CATNATCCCTGGGNNTGAAAAACCNGGGTAGGTTTCTTTCCCAATTAAANGNNTNTT

SEQ ID NO: 1208 ACCCAAATACACAAAAGGTGTCCCTTTAAGGAAAATAAAGAATTAAGTTTAA
AATAACATTACATTTTACAATCTGACATCTGGAGTATATTGAACATAGGCTATTTCTTGATATAAC
ACTCATTTAATTGTGGCCATCCAAATGAATATTATTGAGAAATTTATCTTGTTCATAATGTTGT
AATGGTGTATAGCTGAATACCTGTGCATGAAAATGGGCAATATTTTCATCTGTCTACTTGTAGTG
CCATAGAGGCCAATATGCACAATATTAATACTAATGCCAAGACATGGCTGTTTAAAAAATTTAATGTT
CAAACAGTTATCACTGATGCTTTTGCACATTTTATTAATAAAATCATATATTGTGTACC

SEQ ID NO: 1209 ACAAGTGTATACAGGCACAAAACATGTTTTTAACAAAAGAAGGAGGAAACACT
CATGACAATTACAGTCCTTATTTCTACAGCTGGTCACGTGGTCATAGCTGGTATCGATGACTACCT
TCTTCTACTACCCATTCTGTATTCCTTAGTCTTCAGTAAGCACCCAGTAGGTCATATGGGAGAGT
TGAACAGGGATGTAGTGGGAATCACCTCCCGTCAGTCTTTCAAGTCCTTCATGGTGACACTAATCT
CCGCAAACCCCTCCAGAGGTGCGATATTGCTTTTGATTACAAATTTTCTAGGTAGAGACAGCTCTA
ATGGCTTCCATTTGGCCTTTCCCACCATAATAGCCCTCACCCCTACCAGTCAGGGAACCAATGTGGG
GGTTTTGTGCTAGCTGCTAAGTATGTCTATGCCAATTATGCATTCTTGCACTGGGGAAATGACCACAG
GATGAGTATGGGGACCCACTGGACCCATTGTAAAGTCAAGACTTAAGTAAAACTGCATTAATTAC
CTGACCTCACAAGCCCTATTTTAACTGGGGAACCACAATGATGGTTTGAGTNCCTGGAAATCAGT
GGCAGCTCAAACACAGTGTCCCTTACTTCCCGAAATNGTNTGATCATTTCCCTTTCCCCCANGCAC
AAGTANCCCTGGTTAAAAAGCTGGANGNATTCCTTTGGGGAAAAATNGTAGNAAAAAATTAACA

SEQ ID NO: 1210 GGTACGGAGATGTCTTATGGTGAAATTGAAGGTAAATTCTTGGGACCTAGAG
AAGAAGTAACGAGTGAGCCACGCTGTAAAAAATTGAAGTCAACCACAGAGTCGTATGTTTTTCAC
AATCATAGTAATGCTGATTTTACAGAATCCAAGAGAAAACTGGAAATGATTGGGTCCCTGTGAC
CATCATTGATGTGAGAGGGCATAGTTATTTGAGGAGAAACAAAATCAAACTACAGATTTGCATA
GACCTTTGCATGATGAGATGCCTGGTAATAGACCAGATGTTATTGAATCCATTGATTCACAGGTTT
TACAGGAAGCACGTCCTCCATTAGTATCCGCAGACGATGAGATATATAGCACAAGTAAAGCATTT
ATAGGACCCATTTACAAACCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATG
TTCTAAATGGTATAAATGACAGAGGAGGACNAAAANGAGAAACAGAAATTTAACTCTGAAAAAT
CAGAGATTGACAAATGAATTATCCAGTTTNCAAAAGAAATTTGAAGANCTTGAAAAAGGAAAAANATG
GTTTTTGAGAACAGTGTNAAGAAATCTGAACCTTTTNNNGGAACAATTTNTCCCTTTTTTATGAA

GGGTCATAATTAATGGNCCNCTTAAANCCTGATTGAAANAAAAAAGATCTTTGTTTAATAAA
GCTTNTNCCCATC

SEQ ID NO: 1211 GGTACGCGGGGGTGGCTACCATGCTCTCTCGCGCGGGTGTGCTGGGCTGTC
GGCCTGGACCTTGCAGCCGCAATGGATTCAAGTTCGAAATATGGCAACTTTGAAAGATATCACCA
GGAGACTAAAGTCCATCAAAAAACATCCAGAAAATTACCAAGTCTATGAAAATGGTAGCGGCAGCA
AAATATGCCCGAGCTGAGAGAGAGCTGAAACCAGCTCGAATATATGGATTGGGATCTTTAGCTCT
GTATGAAAAAGCTGATATCAAGGGTCTGAAGACAAGAAGAAACACCTCCTTATTGGTGTGTCCT
CAGATCGAGGACTGTGTGGTGCTATTCATTCTCCATTGCTAAACAGATGAAAAGCGAGGTTGCTA
CACTAACAGCAGCTGGGAAAGAAGTTATGCTTGTGGAAATTGGTGACAAAATCAGAGGCATACTT
TATAGGACTCATTCTGACCAGTTCTGGTGGCATTCAAAGAAGTGGGGAAGAAAGCCCCCACTTTT
GGAGATGCGTCAATCATTGCCCTTGGAAATTCTGAAATTTCTNGATATGNAATTTGATGAANGCTN
CATCATTTTTFAAATAAATTCAAGGTCTGTCTATCTCTATAAANAANAAGAAAGNCCNTCTT
TTTTCCCTTAATACCGGTTGCAAANTGCTNACCAGCATGAAGTATTTTTNGAC

SEQ ID NO: 1212 ACTGATACAATGGATCAAGTTCTTAAAAATTTTAAAAGAATAAATGATGCTG
GAATTCCTGGACCTGAGGATCTTTAGTATTTGAACAAATCCACAGATTAAACTGAAGGTAAATTAA
GACTTCAGTTTTGGTTATTTCCAACTTTTCTGTGAGGATGTATATCCATTAAAGCTCAGGCTTATAG
CCACACTGTTACTTTTGTAGGTAATCTTCAAGTTTTATGGTTTAAAATCCAGCCAACCAAGTGGCTGT
AACAGCCGAATTAGCCATAATTCAGTGGCTCACACAGTGGAGATCTGGCTCTCATTACACCAAG
CATTTCTTGTAATGACCTCCATATTTAGAGATCAGGGGAACAACCTTTAGTGAGCAGCAACCAATC
CACTCAAACAGTCTGCCTTGTGCTTTATGCCTGACTTTTTCTTGTGCCTACCTCAGCAACCCCCAAT
GTAAACTGCTTTTATCTTTGAAAAATTTTTGCAACNTTGAACTATTTAGTAACGGATTCTACT
CCANNCATTGCTTNTCTGAATCCACTGGGCATCCTGGAAAAANAATTCTGCGAAGAAAAGACATTT
GCCTTGGTCCCAGNGTTCATGCNAAAACCATTTTTTTTAAAAAATGGGNCCCAATTTNGTCCCG
GANTTCTAAAATGGCTTTCTTTGAAATCTTATCTTTTAAACCTGNTCATGAATTATNCCC

SEQ ID NO: 1213 ACGCGGGGACAACTTTAGAGACAGCAGAGCACACAAGCTTCTAGGACAA
GAGCCAGGAAGAAACCACCGGAAGGAACCATCTCACTGTGTGTAAACATGACTTCCAAGCTGGCC
GTGGCTCTCTTGGCAGCCTTCCTGATTTCTGCAGCTCTGTGTGAAGGTGCAGTTTTGCCAAGGAGT
GCTAAAGAAGCTTAGATGTCAGTGCATAAAGACATACTCCAAACCTTTCCACCCCAAATTTATCAA
GAACTGAGAGTGATTGAGAGTGGACCACACTGCGCCAACACAGAAATTATTGTAAAGCTTTCTGA
TGGAAGAGAGCTCTGTCTGGACCCCAAGGAAAACCTGGGTGCAGAGGGTTGTGGAGAAGTTTTTGA
AGAGGGCTGAGAATTCATAAAAAAATTCATTCTCTGTGGTATCCAAGAATCAGTGAAGATGCCAG
TGAAACTTCAAGCAAATCTACTTCAACACTTCATGTATTGTGTGGGTCTGTTGTAGGGTTGCCAGA
TGCAATACAAGATTCTGTTAAATTTGAATTTCAAGTAAACAATGAATAGTTTTTCATTGTACCT
CGGGCCGCGAACCACGC

SEQ ID NO: 1214 ACATTTTCATAAAATATGAAGGGATAACTACAAACTGGAGTAAAAATGACGG
TAATTAATAAAATCCTCAGTATCCCTAGCTTGTCTATTAAGTGTGATAATCTGACTTGAGTCAGAT
TGAATATTTGGAGTGCTTCCCCAGAATAACCACTATTTTTTGAAGCTATCATGTGAAGTATTTTTTT
AAAACAAAACAAAATATGGTCATTAATAAACTAGAGAATTAGCCATATTAAGGATTTTTCTTG
ACTGCAAATTACTTCTAAAGAATCATCAGTGTATAGATTAGAAGTGCTCATTACCTGCAACTTTTA
AAAAAAATTCAGTTATAGCTGCTTTTGAAGAGGTTTCCATTTTATTTAAATTAATAATGGATCAA
AGAACAATTGTTTATTTTTCTCTTTGGTTTTAGATATTAATGATAACCTTGTTGGAATTTTTTTTC
CAAAGAAAATATTTTTATAATTAATAATTTAATGTTTTCTTCTTTTTCATTACCTACTCTTGGCA
GTGTTAGGGTATCTGTTTACCTTTAAAAATGATAAGTCTCACTCAAGATTTTTTATGTATGTATAAA
AATTTTGGNGTGCTACAAAAGCCNTTGCAAATATCAGTAGTAGTTTTTTTTTTTTTTTTTTTTTTT
TTAAANAAAGAGCCGATNTTGGCTTAATGCCCNCTAGGGGGACATTCNNAGGGAAGC

SEQ ID NO: 1215 GGTACCTTCATGAAAACGGTATTATACACCGTGACTTAAAGCCAGAGAATGT
TTTACTGTCATCTCAAGAAGAGGACTGTCTTATAAAGATTACTGATTTTGGGCACTCCAAGATTTT
GGGAGAGACCTCTCTCATGAGAACCTTATGTGGAACCCCCACCTACTTGGCGCTGAAGTCTGTGT
TTCTGTTGGGACTGCTGGGTATAACCGTGCTGTGGACTGCTGGAGTTTAGGAGTTATCTTTTTATC
TGCCTTAGTGGGTATCCACCTTTCTCTGAGCATAGGACTCAAGTGTCACTGAAGGATCAGATCACC
AGTGGAATAACAACCTTCAATCCTGAAGTCTGGGCAGAAAGTCTCAGAGAAAGCTCTGGACCTTGT
CAAGAAGTTGTTGGTAGTGGATCCAAAGGCACCGTTTTACGACAGAAGAAGCCTTAAGACACCCG
TGGCTTTCAGGATGAAGACATGAAGAGAAAGTTTCAAGATCTTCTGTCTGAGGAAAAATGAATCC
ACAGCTTTACCCAGGTTCTAGCCAGCCTTTCTACTATTCGAAAGCCGGCCCTGAAAGGGGAAN
NCCGANNGGTGCCGANACCACAANAGCCGCCCCANCTGGTGTGGTGTGCTGTTGTGAACCT
CCTGGGTTTTGAACACCAAANNAATGTNCTGCCNNGCCGGGCCCTTNGA

SEQ ID NO: 1216 GGACGATCGAAGGGACTATGTCTTCATTGAATTTTGTGTTGAAGACAGTAAG
GATGTTAATGTAAATTTTGAAAAATCCAACTTACATTTCAGTTGTCTCGGAGGAAGTGATAATTTT
AAGCATTTAAATGAAATTGATCTTTTTCACTGTATTGATCCAAATGATTCCAAGCATAAAAGAACG
GACAGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAA
AGAAAGGGCAAAGCTTAATTGGCTTAGTGTGCTCAATAATTGGAAAGACTGGGAAGATGATT
CAGATGAAGACATGTCTAATTTTGATCGTTTTCTCTGAGATGATGAACAACATGGGTGGTGATGAGG
ATGTAGATTTACCAGAAGTAGATGGAGCAGATGATGATTCCAAGACAGTGATGATGAAAAAATGC
CAGATCTGGAGTAAGGAATATTGTCATCACCTGGATTTTTTGAGAAAGAAAAATAACTTCTCTGCAA
GATTTTCATAATTGAGAGAATTTCTGAGTTGATAGCTCTTAAAGGCAGATTTGCTGTTTTTGCTAC
TTTAACCCATTTTTCAACCCGTGTTGGTTTTTAAAAGGCTTCNCTTANNGGNTTGGTTATTGTACC
TGGCCGGGCGGGGNCGCTC

SEQ ID NO: 1217 ACGCGGGGATGTAATTTTAAAATACAATGCAGACGAAGCTAGAAGTCTGAAG
GCATACGGCGAGCTTCCAGAGCATGCTAAAATCAATGAAACTGATACATTTGGCTCTGGAGATGA
TGATGAAATTCAGTTTGATGACATTGGAGATGATGATGAAGATATTGATGACATCTAAATTGAACT
CAACATTTTACATTCCATCTTTTTCTGAAGATTGCTCTACAATTTGGATTTTGATCATGACAAAGAAG
ATTAATAATTTTCATTAGCATGAATGCAATTTGTTAAAGCAGACTGATTTGTTTCTAAGATATTTTTGG
TTTTTTTAAAACCTGATAATAATGCTGAATTATCTTAAAGTGAGATGTTAAGCCCACCTTGTTCTTTTA
ATGTAATGGAGCTTATGGGTAGAAAACCATGTCTACTAATTACAAAAAACCATGCCATTG
CTGCTTTTCTACCACTTCAGTAAGAAAAATGGGTGTTTTGAANAATCATTTGCCTTGCTCCTCACNG
AATCTGATTAACCCCTGGCCTCTTGATTGNATAGAAGTCATTGNGTATATTCCAGTTACCTTACNA
TATTCCTTTGGAGATTTTGATTCCAATTTTGANGGGANGGCANAAATCTTGCANTTTGAAAAA
AAAAAAAATAAAGTCTGNTTGGCCATATTTAAANTAGCCCTGGGGGCTTTTTTTTANTNC

SEQ ID NO: 1218 ACGCGGGAAACACAATTTCAATGCAAGCTCAGTTTCTCTGGTGTTCAAAACT
GTTGATGTGTGTTGCTACTTTACCAATGCTGCTAATAATTCAGTTTGGAGCCCCTATGAAAGCTG
AATCTGGTTCCTGGGGAAAAACATCACATGCCAGGATCCCGTAATAGGTGTGCGGAGAGCCGGGAA
AGTCATCCAGAAGCTATGCCGGTTCTCAAACGTTCCAGCAGCCCTGAGAGTCCCATTTGGCGGGA
CCATCACTTACAAATGTGTAGGCTCCAGTGGGAGGAGAAGAGAAATGACTGCATCTCTGCCCA
ATAAACAGTCTGCTCCAGATGGCTAAGGCTTTGATCAAGAGCCCCTCTCAGGATGAGATGCTCCCT
ACATACCTGAAGGATCTTTCTATTAGCATAGACAAAGCGGAACATGAAATCAGCTCTTCTTCTGGG
AGTCTGGGAGCCATTATTAACATCCTTGATCTGTCTCAACAGTTCCAACCCAAGTAAATTCAGAAA
TGATGACGCACGTGCTCTCTACGGGTAATGGTCATCCCTTGGCAAGCCCGTCTTTGAACACCTGGA
AGGGTTTTCAACAGCANTTGGANCAATCAGAAGNTTATAAGCTNCTNACATTCAAGNGGGAAAAA
TTTTNCCCAANCTTTCNNGGCNNGGGAAAAAAGCCCCNCCTTTTGGGCCTTTTTTCCCAA

SEQ ID NO: 1219 GGTACTGAAGGACAAAACTTGATGGCCTCAAAAGGTTCTTGAAACACCACT
CTGATTCTCCAAGGACGAATTACGTAAATTATACTTTTCATACAAAGGAGACGATAAGGCAGTAAA
CATGGAGACACGGGGGACAGCGTCCACACTCAGAGGGCCTGGGCCACAGCCCCGATGTTTCTTTT
CAGAACTCAGCCCCCTTCTGATTTTACTTCTAAGAGGAAAAATTATTTTGGGGAGGAACTACACAG
TCGTGATTAGAATTTAACTGATGGTTTTGTATTATACTTCTAAGACCTGCCAGAATGCTAGTCCTG
AGAGTGTGACACAAGGAAGAAATCCCTGGGCCTCTCCCTCAGCTGGCCCTTGATTTTCATGGAG
CAGCCACTTAGCATTGAATTGCACTACCCTGAGCTAAACGTGTCTGTGCTTTCTAAGATAAAAGCT
TGATCCCTTTCTTCTGTCTTAAGACAGCACCTCCTGAAAAGAATCGAAGTTGTCACAACCTCTCAAT
TATTTTTTAAATACTGCATAGATTGAGTTTTGGGTTATTACTAACCCTTTCCAAAATTGCATCGGAT
CTAAAACCTACTAGAATCTCATTCATTTCCATGTAAATTACCACANAACCGCAATACCTGGCCC
GGGCNNGGCCGCTTCNNAAANGGGCGAAATTCACNANANTTGGCNGGGCCGTTTCTTAGNNGGAC
CC

SEQ ID NO: 1220 GGTACATGGTGGGTGGGTTATAAATATTGGGACTTAAGGCAGCTTGTTCTATG
TATTTATCTTTGCTCTTGGGTGACTTAGGGAATGATTTTATTTGATTAAACCTTCTTTCTGTTTGGCC
CGAGAATACTCGCCAGTGGCGCTTGCACTTGTAGCATTTACCCCAAGATAACTTTGCCTACGAAAT
ATTTTCGCTTTTATTATTTTACATCATTCTAGTATATGGACTTTGGAAACAAAAGACATTGTTCTAT
TTATAGCATCTTTTATTTTATAGTAGCGGTATTTCCATTTACAAAATATAGTAACTCTTGATTACT
GAAAATGTCAAATCCTAGAAAACGTAGCATGCCTATACATGATGTTAACATCATTTCTCGAACAGTT
GTTGGCCGAAGATTCATTTGATGAATCCAATTTTTTGAATAGACAATTCTGATGTTCTCTTTAGAA
ATAACTCAGTTTTTATCTTTTTTACATTGAAAATCAGTTAGATTTGCTTAAGCCTCAAAGAGAATG
TTTATGTAAATTAGCGCTGGCAATTTTTTTTTTTTAAACAGGAAAAGGGTTAAATGAANGGTGAT
AAAATGGATGTTCAATTGCTTTCTGAAAAGTGAAGTGGCTTGAANGGATGAATAAAAAATTTTCT
TAATATATTTNAAAAAAGNCCNTTGTCTTTNTGGGATGGAAGGTTAAACCTAAA

SEQ ID NO: 1221 ACTTCCCTGAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGTGT
GGCTGAGGTAGGAGTAACAGTCCCTGACACCATCACCGAGTGGAAGGCAGGGGCCTTCTGCCTGT
CTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCTCCGAGCCTTCCAGCCCTTCTTTGTGGA
GCTCACAAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTCACACTCAAGGCCACGGTCCCTAAACTA
CCTTCCCAAATGCATCCGGGTCAGTGTGCAGCTGGAAGCCTCTCCCGCCTTCTTAGCTGTCCCACT
GGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAAACGGGCGGCAAACTGTGTCCTGGGCAGTAA
CCCCAAAGTCATTAGGAAATGTGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTG
TGTGGGACTGANGTGCCTTCAGTTCCTGAACACGGAAGGAAAGACACAGTCATCAAGCCTCTGTT
GGTTGAACCTGAAGGACTAGAGAAGGAAACAAACATTCAACTNCCCACCTTGTNCAATCANGTGGT
GAAGGTTTCTGAAAAAATATCCCTGAAAACTGNCACCCAATGTGGNTAGAAAANAATNTGCCCGAG
CCTTTTGTCTTAANTTTTGGGGAAAAAATATTAAGGCTTTTGCCTTGCCAAAAACAACAAAAAT

SEQ ID NO: 1222 AATAAAGAACCCTCTATCAGTGAGACTTCTCATTTTATAGCAAATACATTTTTG
CAGCTTAAATTTTCTTGAATTCATATACGCTTCTGTCAATTAAACAAACTTCCAGAGAAAACTGGT
CTCTATATATTTAAGTAACAAATTTGACAAAATACATATTTATACATATATAGATCTCTAATATAA
ATATTAAATTTGAAAAAATCAAATGTGAAGCAGAACTGCTATACAAGTATATTGTATAATATTTA
TTTTATACATTAAAGTATTTGGTTGAATATACTTCAATTAGGTTTCTAAAAAACACCATTATCTGCT
TCTTAGTAATTGCGACATTCTTGAAAAGCATGTGAAACGGGTATAAACTTCAACTCTGTGCTTAAT
TCAGAAATCCTGTTTGTCTCCTCAAACCTTTATCTTCTAAAGCATCTTGCCAGAGACTACAAAGG
AAAGGACATTTACAGAGCACTATAAACACTCTTTGGACAGTAAAAACAGTTATTATTCTTCTAC
ACTCTTGGATTTTINCAATCATATCTTCTCAAGGCATGGNTTCTTTTGGCCCAATTTTGGGCCACTNA
ACATTAAATTTCAAAAACCACAACTTTTACCAGGGGNGANTATGAAAATGGCAGGGGGGCAGG
NCCCCTGGCTTTTCNC

SEQ ID NO: 1223 ACAAGTTCGGCTTTGAGCTTCCTCAGGGGCCTCTGGGAACATCCTTCAAAGG
AAAATATGGGTGTGTAGACTACTGGGTGAAGGCTTTTCTTGACCGCCCGAGCCAGCCAACTCAAG
AGACAAAGAAAAACTTTGAAGTAGTGGATCTGGTGGATGTCAATACCCCTGATTTAATGGCACCT
GTGTCTGCTAAAAAGAAAAGAAAGTTTCTGCATGTTTCATTCTGATGGGCGGGTGTCTGTCTCT
CTCGAATTGACAGAAAAGGATTCTGTGAAGGTGATGAGATTTCCATCCATGCTGACTTTGAGAATA
CATGTTCCCGAATTGTGGTCCCCAAAGCTGCCATTGTGGCCCGCCACACTTACCTTGCCAATGGCC
AGACCAAGGTGCTGACTCANAAGTTGTCATCAGTCAGAGGCAATCATATTATCTCAGGGACATGC
NCATCATGGCGTGGCAAGAACCTTCGGGTTTCAAGAAATCAGGCCTTCTATNCTTGGGCTGCAACAT
CCTTCGAGTTGAATATTCCTTACTGATCTATGTTAANCCTTCTGGATCCAAAAAAGNCATCCTTG
CCCTGNCCTGGTAAATTGGCAGC

SEQ ID NO: 1224 GGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTG
TGGTGGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCCTCCTGTGCTCG
CCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAAATCATATACCTCTTG
AAGAAGAAGGAGTCAGCCATCGCCAACTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTTGCA
CTGTATCATTTTCATGCTTTGATTTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATC
AGTATGGTGTAAATGTGTCTGTGGACCTCGCTCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGA
ATGTTGTGTAACAGTTAGCCACTGCTGGTGTATGTGAACATTCTATCAATCCAAATTCCTCTG
GAGTTTTTCATGTTATGCCTGTTTGCAGGCAAAATGTAAAGTCTAGAAAATAATGCAATGTCACGGC
TTCTCTATATACTTTTGGCTTGGGTCAATTTTTCCTTTAANTTAAACCATGCAATTTAAATGGGGA
AGCCTGTGTTTCGGGGGAGAAAACAAANAACCAACTTTTTTTTNTTCCCTTGCCCCCAATTTCCCCA
AACTTANAATTTNAAGCTTATTTTTTTTTTTTTTTTGAACCCCTTANCAAAATGATCTTGTNNGAAA
G

SEQ ID NO: 1225 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATACAANAACCTTATGTTTATTGCAA
ACAAACAAACAAAAAAGGAAAGAGAGGAAAGANAAATGGTCANAAGCNCAACATATA
AGGTTAANAATTTAAAAGCATNTTACATTTNTGCCCTAATGGCAGCATAATTAATAGCAACAAACG
GCCGNTTGTGCTGCGTCCGCGANCCGGAGGGTNTTTTGCANACCTGACGAGCAAAATTTGTGAAAT
ATGTAGTATGAAGGAANAAGCTTGGCGGGTCTTCACTGCANACTTTGGACTCCCAGTGTTTCGGA
CTGGCATTCCCTGCATGGCCTGGCGGGACACGTGACTTNTAACACGAGGGTCTNTGTAGTTGGGC
TAGGAAATAACTTCTCTTCTTCTGACTGGGTGGGCATTTTCAAGCCTCCATATTTTTTTCCAATAAA
GCCAACAAATTGCACATAATCTACACTGCATATTAGNGGGGCCCAANAATACCACTGGTGANAC
TGTGTAACATAACAACNTNACAGGCTCTCCCTAAAAANAGGATTCTGAGGCTGGACGTGGCCCCA
CAAGCTTCATTTACAAGNACCAGGCTTCCCATTTACTAAGGGGAAATTTTGGNTGGGAATTTGGNT
TNGCTGNANGGTNGGGAAAAATATACCTTGGTTCANNTTACCCCTCNANCTTNNGGGGNGTT

SEQ ID NO: 1226 ACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCA
CTCGCTTGGTGAAGTCACAACAGAGTGACAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAAT

GCTATTGAAGGGGGGACCCAGCTTTCTAGGGCCCTAGAAACTCTGACAGGTGCCTTATTCCAGCG
 ACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTACGAGAGCAAAATGA
 TTGAATACGATCCTGAAAGAAGATTAGGAATCTTTGGGTGAGTTGTGAGGCTGGCACCTACATT
 GGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGGAGCTTCGGAGGG
 TTCGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTCAGT
 GGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCCTTTGGAAAAGCTG
 NTGACATCTCATAAACNGCTGGTTATGAAAGACAAGTGACAGTAAATGCCATCTGCTNTGGGGCCA
 AGAATATGCTTNCAGGTGTTCTTCGATATGANGACCGCATTGANGGCAATCANGAAAATTGTGG
 TTNTCACCCCCCAAAGGAAAANCCAATCTGCNTGGGTTTGGATTTAATGACCACAN

SEQ ID NO: 1227 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGGTTCCACACCTGCCCTTTATT
 GGTCTNTNTANCANAGTGGNTCCAGGCCCTTNACGCCTCTNAAACACCACCCATNAGGGTTTAG
 GAAGGNGCCNTNATTNTGTGAAGGCCCAGANCTTACCCAAGTNTTGGAGCCCAAGTTGAATCACC
 AACCAAAGGGTTGGGANANGAAAAGGAAACAGGCNCAGGGGAAAGGCAAGGCTNTNCAATGAA
 GGGGACTGATNTNAANGG

SEQ ID NO: 1228 ACTGGGACAGTTGGGTGTGTTATGGATACATAACCTGAGGAGCCGGGGGAAG
 CTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAAT
 GGGAGAAGAAGATAAAATTTGTTTATCCTCCACAAGTGCTTGGAGAACCTCGGAGACCAGCAGAA
 ATCTACCAGTGTGGAAGACAAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAAATTTGAT
 ACGAGGAATGTCTATTGACCAGGCTTTGGCTCAGTTGGAATTCATGACAAAAAAGGGGGCCAAAA
 TAATTAAGAGGTTCTCTTAGAAGCACAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGG
 TCCAATTTATATATAGCTGAGTCCACCTCAGGACGAGGCCAGTGCTGAAACGCATCCGCTACCAT
 GGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCATTATTTTGTGAAGTTGGTGGAANGG
 CCCCCACCTCCACCTGACCACCAAAAGACGGCAAGTTGCCCTGCCAAAGAATATATTCAGCAGCT
 TCCANCCGGACCATCGTTCACACTCTATGATGAGGAGATTCAGACCTCCACANGTGTATATATTTT
 GGCCTTTATTTNTAAAAAT

SEQ ID NO: 1229 ACAGACAAAGTGGGAGGTTTTATTTCTTGGTCTCTTCCCTCCTTGGATAAAGTC
 TTGATGATCTCCTCCTTCTTGGCCTGGAGGCGCTCTTCACGGCGCTTGCGTGCTTCTTGGTCTTAG
 ACCTGCGGGCCTCAGCCTGGTCAGCCAGGAGCTTCTTGGCGGCTTGTCTGCCTTCAGCTTGTGGA
 TGTGTTCCATGAGAATCCGCTTGTGTTTGAACACATTCCCTTCACCTTCAGGTACGCGGGTGTCAC
 GCATCTGATGAAGCGAATTCAGAGAGGCCAGTAAGAGGTATCTCCATCAAGCTGCAGGAGGAGG
 AGAGAGAAAGGAGAGACAATTATGTTCTGAGGTCTCAGCCTTGGATCAGGAGATTATTGAAGTA
 GATCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTTCAGGTCCT
 CAGCCTACAGTTGGGATGAATTCAAAACGCCTCGGGGACCTGTTTGAATTTTTTCTGTAGTGCTG
 TATTATTTCAATAAATCTGGGACAACAGCTT

SEQ ID NO: 1230 ACGCGGGGCTTCTCCAAGATGGCGGCGATCGGCGGGCGTTGAGGCGGGATCCG
 GGCGAGCCGAGTGAAGATTGTTTTGATGTTGATCATACCTTTGAGGACATAGGACTTGCAGCTGG
 CCGAAGCCAACGAGAGAAAAAACGTTCTTACAAAGATTTTTTAAGGGAAGAGGAAGAAATTGCTG
 CTCAGGTCAGGAATTCTTCCAAGAAGAAGTTGAAGGATAGTGAACCTTACTTCTTGGGGACGGAC
 ACACACAAGAAGAAGAGGAAGCACTCCTCTGATGATTACTACTATGGAGGACAGTGGTTCTTGT
 CTGAGTGCCGATAAACCAAGTGTGAAGGAGGAGAGAGGTTGGAGGGCTGGTATTTTGGAGGATTTCAG
 CATAGAAGAACAGTCTGCATTTGTGATACACCAGATATTTCTGCTTTTGAATCGTCACAGAAGAAA
 AAGAAAAAGTCCAGCCACAGTCTACTGATACAGCTATGGACCTGTTGAAAGCTATCACTTCCCC
 ACTGGCAGCAGGCTCCAAGCCCTCAAAAAGACTGGGGAGAAAATNCTTTGGCTCTTTAAGCCAT
 TCGGAGAGTAAAAANGACCCCCACAGGAAGAAAAGTCAAGTGGNAAGCAGTGGGGAACTCCCCCT
 AANAGGATGGNGTCTTCCACAAATCGAAAAAAAATAAAACCTNTTTTTTTTGAACCACAGNNA

SEQ ID NO: 1231 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAAANATGGGGTTTCACCATN
 TTGGCCAGGCTGATCTTGAACCTCTGATCTCGNGACCCACCCGCTCAGCCTCCCAAAATCCTGGG
 ATTACAGGCGTGAGCCACTGCGCCTGGCCAANATTTTATATNTTATCAGTAGCCTGAGGTTTCCCC
 CTTTCTCTGACTTTCATTACTANAGTCACCANAAGGAACATTTACAACATTTTAAAAATAACAAGT
 TGCCAGCATACTCCTATTTCTCTAGTTTCAAACATAAAGGGGAACCCAGCCCAACAANAACA
 AGCCTTGCTGCATGCCTGCCAGCTCGTGCATCCTCTTTTATTTCAAGAGGNGCCAGCTCCAAAC
 AAAGTTACAAGGTTAAGNGCAAACCTCAAGTTCTGACACAGCTAATCCCTGCTCGGCTTCAAAAA
 ATAAAGGCTGTAATTCCTTTTTGAACATCGCTTCGAAGTGGAGGTCTTTGGCCATGAGCTTTNTTN
 GACATCTAATGCCCACTGGTGATCCGTCAGCTTCAAANGCTTCCACTNIGTTTGAAGGCTT
 GNTTGNNGTTTGGCGGCATTGGCCATGGNTGNTNCCGGNATTGNTCCTGGGATTAATTCGGGAAT
 NGGGCAAGGGGCATTATTTTTGGNCCAAAATNAAAAAAGAAAATGCTTCCNAA

SEQ ID NO: 1232 ACCCCTTAACCCCTTCTCCTTCACCCTTAGCAGCAAGTCCCACTTTTCTAGGG
GGCAAGAAACCCCAACCCCTTCCCTCCGTGCTTTACGCTCTCTTTTCTCTGGGTTTGCTTCCTC
ACTATGGGCAACCTTCCATCCTCCATTCCTCCTTCTCCCTTAGCCTGTGTGCTCAAGAACTTAAAC
CTCTTCAACTCACACCTGACCTAAAACCTAAATGCCTCATTTTCTTCTGCAACACCGCTTGGCCCA
ATACAAACTTGACAATGGCTCTAAATGGCCAGAAAATGGCACTTTCGATTTCTCCATCCTACAAGA
CCTAAATAATTTTTGTCAAAAAATGGGCAAAATGGTCTGAGGTGCCTGATGTCCAGGCATTCTTTTA
CACATCCGTCCTTCTAGTCTCTGTGCCAGTGCAACTCGTNCCAAATCTTCCTTCTTTCCCTCCC
ACCTGTCCCCTCAGTCCCAACCCCAAGGCGTTGCTGAGTGTGTCTAATCTTNTCTTTCTACAAACCCA
TCTGACCTNTTCCCTTCTNTNCACGCCAAGCTAGGGCCCAATTCTTTCTCAGGCTCCACTTCCTTCA
CCCTGNAATCTTTTTATCACCTTCCCTTCTTAAACCTGGGTCCGGNTTACAAGTTCGTTTCCGTGA
CTAAGCCCTNCCCCACCTGGCCAAGNAATTTAATCTTTAAAAAAGGGGGGNTGGGG

SEQ ID NO: 1233 ACTACTGTCCAGCCTCCTCAGGAGAACCAACATCCAGTATACCTTCACCAG
CAACTTTGCCAGTCTCAGCACTTAAACAACCAGGTGTTGAAGGACTATGTTCCAAAGAACAGAAG
AGAGTATGGTTTGCAGATGGTATATTGCCCAATGGTGAAGTTGCAGATACAACAAAATTATCATCT
GGAAGTAAAAGATGTTCTGAAGACTTTAGTCCTCTCTCACCTGATGTGCCTATGACAGTAAACACA
GTGGATCATTCCCATTCTACTACAGTGGAAAAGCCAAACAATGAGACAGGAGATATTACAAGAAA
TGAGATAATTACAGAGTCCTATTTCTCAGGTTCCATCAGTGGAAAAATTGTCTATGAACACAGGAAA
TGAGGGGTACCTACTTCTGGTTTCACTTACACTAGATGATGATGTTTTTGCAGAACTGAAGAACC
ATCTAGTCTACTGGTGTCTTAGTTAACAGCAATTTACCTATTGCTAGTATTTAGATTATAGGTTA
CTGNGTGATATTAACAAAGTATGTCTGCAATAAGATTAGTCTTCTACCTAATGATGAAGGACAGTT
TGCCCCCACTTCTGGTTGCATCTGGGAGAAAAAGGGATCANGGGCCTGNANTAANAAGAACATTC
CTTCTNATTGAGCNGAACATTTTTGCTTCTTTGAAAGGGGAAGGCTTTNAATCCTGG

SEQ ID NO: 1234 GGNACTTTNNTNTTTTTTTTTTTTTTTTTTTTTAGGGGGTGCATCGTCANANCTG
CTATCTGTGCTGGTGCTACTGCTACTGGAANANCTGGAATNTGAGTCTGANTCANANGANGAGGA
ANAGGNTGNNGNGGANGCTNACGATGAGGAACCTNCAGGAGCTTTTCATCACTGTCACTGTCTCTG
AGGAGGAANAGGTAAATGTTTCTTCACTCTCTGATGAANAATCACTGGCAGAACTGTCACTGTCTA
CTGCTACTGGAACCTGGTTACACTCTTANACCTTTTTTTCTTGGCCTTCTTCTACATTGGNTTCTCC
AATGCTTTGTTGCAATAANAANCTGTTTTCTTTTTCTTTTAAAGCTTTCTTTAGTTCTGTCTGCTTG
AGGGCCTATGTGAGGNATTTTCTTTTTCTGTGCATTATAAAGTCCAATGTCCAAATTCCAAGCA
TTTCTGACATCTTACATGTTGCTTATTGCTTCAACTTGTCTCCGGGCTATTAACCNATGCATGGGA
NTCCCCATCTTAGCCCCCCCCGTACCTGCCCGGGCGGGCCGNTCGAAAAGGGCGAATTTCCANCCA
CACTTGGGCGGCGGTTNCTAANTGGGANCCCNANCTCGGGGACCCAACCTTTGGCGGTAANNCA
TTGGNCAANAACCTGGTTTCTTNGGGNGNAATTGNTATTCCCTNCCCAANTTCCCCAAAAACA
N

SEQ ID NO: 1235 GGACGTCGGGGACGTCGCGCAGCGTCACACAGAAACATATCCAGGAGTGGGG
CCCATTGATCTGGTGATTGGGGGCACTCCCTGCAATGACCTCTCCATCGTCAACCTGCTCGCAA
GGGCCTCTACGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCCTCCTGCATGATGCGCGGCC
CAAGGAGGGAGATGATCGCCCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATGGGCGTTAGTGA
CAAGAGGGACATCTCGCGATTTCTCGAGTCCAACCCTGTGATGATTGATGCCAAAGAAGTGTCAG
CTGCACACAGGGCCCGCTACTTCTGGGGTAACCTTCCCGGTATGAACAGGCCGTGGCATCCACTG
TGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCATGGCAGGATAGCCAAGTTCAGCAAAAGTG
AGGACCATTACTACGAGGTCAAACCTCCATAAAGCAGGGCAAAGACCAGCATTTTCTGTCTTCAT
GAATGAAAAAGAGGACATCTTATGGTGGCACTGAAATGGAAANGGTATTTGGTTTCCANTCCAC
TATACTGACGTCTTCAACATGANCCGCTTGGCGANGCAAAAACCTGCTGGGCCCGTCATTGGACCGT
GCCAATTCAATCCNACCTTNTTNGNTTCCGTTGAAGGAATATTTTGCTGGTGTGTTAAGGGGAC
AT

SEQ ID NO: 1236 GGACGCGGGGGAGTCAGTCCCAGTCAGGACACAGCATGGACATGAGGGTCC
CCGCTCAGCTCCTGGGGCTCCTGCTCCTCTGTCTCCGAGGTGCCAGATGTGACATGCAGGTGACCC
AGTCTCCAGCCTCCCTGTCTGCGTCTTTGGGAGACGGAGTCACCATCTCTTGCCGGACAAGTCAGG
CCATTACCAAGTTTGTTAATTGGTATCATCAGAGACCAGGGGAAGCCCTAAACTCCTAATCTATG
CTGCTTCCATTTTGCAAACCTGGAGTGCCATCAAGATTCAGTGCCAGTGGATTTGGGACAGAGTTCA
CTCTACCATCAGTAGTCTGCAGCCTGAAGATTTTGGGAATTACTATTGTCAACAGAGTTACACTT
ATCCTTCCACCTTCNCCCAAGGGACACGGCTGGACCTCAAACGAACTGTGGCTGCACCATCTGTCT
TCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACCTGCCTCTGTTGTGTGCCTTGCTGAATA
ACTTCTATCCANAAGAGGCCAAAGT

SEQ ID NO: 1237 GGTACCATCCCTCCATATTGCCACCAAAGATGCGTGAATACACCAGGCTCAT
TTTATTGCCAGTGCAGTCTGGGTTTCAATTGGCAGCAAAACAACTATACCTGCGTAGATATAAATG

AATGTGATGCCAGCAATCAATGTGCTCAGCAGTGCTACAACATTCTTGGTTCATTCATCTGTCAGT
GCAATCAAGGATATGAGCTAAGCAGTGACAGGCTCAACTGTGAAGACATTGATGAATGCAGAACC
TCAAGCTACCTGTGTCAATATCAATGTGTCAATGAACCTGGGAAATTCTCATGTATGTGCCCCCAG
GGATACCAAGTGGTGAGAAGTAGAACATGTCAAGATATAAATGAGTGTGAGACCACAAATGAAT
GCCGGGAGGATGAAATGTGTTGGAATTATCATGGCGGCTTCCGTTGTTATCCACGAAATCCTTGTC
AAGATCCCTACATTCTAACACCAGAGAACCGATGTGTTTGGCCAGTCTCAAATGCCATGTGCCGAG
AACTGCCCCAGTCAATAGTCTACAAATACATGAGCATNCGATCTGATAGGTCTGTGCCATCAGAC
ATTCTTNCAGATACANGCCCACAACCTATTTATTGCCAACCCCCATCAATACTTTTTCGGATTNAAA
TCTGGGAAATGNAAAATGGAGAAGTTNTTACCTACCAACAAACAANTTCTGTAAANTGGCAATGG
CTTGGNGC

SEQ ID NO: 1238 GGTACTTCTGTCTTCCAGTTTTCCTTCACCAAATCGCACTGGCTCCTGGACTCT
TTTCCTATCTTACCACGAAGTCTGCTGCTGCTCGCTTCTCCTCAGTCCTAGCTTCATCAAACTG
GTTCTTGAATCCTGTCTGCTGCTGCTTCTCCTAGATTCACTGAATCCACTTCTGTGTAGCACCTGGG
TCAGCTGTCAATTAATGCTAGTCCTCAGGATTTAAAAATAATCTTAACTCAAAGTCCAATGCAAA
AACATTAAGTTGGTAATTACTCTTGATCTTGAATTACTTCCGTTACGAAAGTCTTCAATTTTTCA
AACTAAGCTACTATATTTAAGGCCTTCCAAATCTTCTAACTCTTCCAAAAGCCTTCTGCCTTAGTT
TTTTTTAAATTACACCAGTCTTTTAGTAGCTTTTGTATGTGATTTTAAACCAACTTCCCTTCTAGC
TTCAAGTATTCTTCTAAATTGGTTCTGGTCTACGTAAACACCCCTCATCTTCTCAAGCTTTACCTTCT
AACTTCTGCACCACCAGAAATTAATGATGGGCTTTTAAAAATAAAATTGGGTACCAATAATTTCT
CTCATTTTTTTCAGTGGTATTTTATCCAATTTTTTGGCTTTATATTTTTTCNATCTTCNAAACCTCTCCN
ATACTTGGCNTAAACTTGGGTTTTCTATTCTATTGNAACCTTGGA

SEQ ID NO: 1239 ACATGGGTAATCTGTCCCCATGACCCAAACATCTCCCATAGGCTCCACCTCCA
GCATTGGGGATCAAAATTTCAACATGAGGTTTGGCATGGTCAAACCTCCAAACTACAGCAGGGACT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCTTCTTCACTGNTNGTTCTGAGTCCAAATTGACTTTAAA
TTATTATAGCAGCTTTTCCAAAAAAGTTGCTCATNATATTCCCTTTCCCTGGNGCCTTGCTGCCT
GCTGCAAAATGCATTTGTTACTTNTTACGCTCTGTTTTCGTTTCTTGTGTTTCTTGGGTTTTAGC
AGCAGCTTTGGAGGCAAACATTTCCATAATTCCTTTGGGCTGCTGGGAAACCTGCTTGGATGCAGG
NGGGCCATGACCATTGGGGGNCANCTCATTGTTGGCTTNGTCTCACTTGACATGTGAANATGTGA
CTGCTCAAACTTTTGGAAAACNAANAGGATTANCANGGAGCTNTAGGGGACCGGCAGCTGCAC
ATTGNATANCACTAAATTTGCTGNNAATTTGCAAGNTGGCTTTTAAAGGATNGNNATANNCAANNAT
TGNAACANAAGGCCCCCGGCCCTTTNAAAAAGGGTTTNTTGGGATGGNTGNACCTTNGGCCNGG
ANCCCCCTANGGGCGGAATTCCA

SEQ ID NO: 1240 TCCTCCCGCCGCCAATATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGG
TGGNTCCNGCCCCAGCTGTCGTGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGTTNGAG
AAAAGGCCTANNAATTTTGGCATTGGACAGGACATCCAGCCCAAAAGAGACCTACCCGCTTTGT
GAAATGGCCCCGCTATATCAGGNTG

SEQ ID NO: 1241 CCGGGCAGGTACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCAT
CCTCATTACGTTTTCTGGACAGCCGCACACGGATTCCGGTATGGCACATTCTTATTCTTTGGCCCA
GACAGCTTTGTGAGCCTGGTGTCAATGCGCACATCTGGAGTTCCCATCTCCTTCATGGCAAATTT
CCGAATCTCTTTGAGTGCCCGAGGTGCACGCTTCTTGAAGCCCACTCCATGGATGCGCTTGTGAAT
GTTGATGGTGTATTCTCGGGTTACCACTTCGTTGATGGCAGAACGGCCCTTTTCTTCTCGCCACCC
TTCTTTGCGGGAGCCATTCTGCAGCGTCCAAGTTGGAAAGCCCCGCGTACC

SEQ ID NO: 1242 GGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAG
CCACTCGCTTGGTGAAGTCACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCAC
AATGCTATTGAAGGGGGGACCCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAG
CGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTACGAGAGCAAAAT
GATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTTGTGAGGCTGGCACCTACA
TTCGGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTGCAGATGAGGAGCTTCGGA
GGGTTCTGTTCTGGAGTCATGAGTGAAGAGGACCATGGTGACAATGCATGATGTGCTTGATGCT
CANTGGCTGTATGATAACCACCAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAA
AGCTGTTGACATCTNATAAACGCTGGTTATGAAAAACAAGTGCAGTAAATGCCATCTGCTATG
GGGCAAGAATATGCTTTCCAGNGGTCTTTGATTAAAGGACCGGCTTGGAGGTCAATCA

SEQ ID NO: 1243 GGTACATGGCAATTAGAAGTTGTCATGGCAAAAAGAAAACCACAGCTGGCCTG
CCACAGCCAAACACAGAAAGAAATGGTAGATGAAATGAAGGAATAAAGGTGGGGTTTATTCT
CTTATTATAAAAAGAAAAAATAATTCTTCAGCAGTCTTAACAAAGACATCAAGATACAAAATTA
CAAGTGTTTTGAATCCAGCCCTGTCCCCATCTCCTCCAAGAGCAGAGGTAGGAGACAGTTGAAGC

AAACAAGCAATTCTGTAAAAATTACCTAGAAACCTACAAATTTGATTAAAAATCTAACTTCTATA
ATTTTGCTTTTTAAAAAATTTAATATCAAAAGGCCTGCTTTAGTGACATGCTATTCTACCAGAAA
ATAACCCCAATACCCCTCTGTCTAGTAACATGCTCAAGTTGACCAGCCAACTCTTATCTCTAAACC
TATGTGGACAAGTGTGTCTTTTAAACCAAAGCCAGGAGATCAAGTGACTGCTAGTAACGTGTGCTG
CTGTAACTAATCCANTGCCCCCTTCTNCAGANGGTGGGCAGGGCAGAAACCCAAAAAGGTCTTG
GAGGGCCTAATNCCAGATCACCATCTAANAACCACTTCTTGCTCTNACTNAAAAATGAGAAGCTT
TATTTTAAATCCGACTATTTGNCTTAAAAATTTGGNGCCCCGNGAACCTGGATGGGTTTTTCTTTN
CCA

SEQ ID NO: 1244 ACAAGACAAAGGCGAATGAGACTTCTCTTATATCTGAGTAACATTAAGATGG
AAATCAAATTTAAATGCAGTCCACTCTGCTTTTTGAAGAGGCTTTGGTTCAGCTCCCAATCTCGA
TTGCTTGACGCAGTCTCCTATGAGAATACTCAGAAGGTGTCTTCTTAAACAACAAACCTATTTTGA
GTGGTGGAGCCGCTCTTAGTAGCTGTGTCTGCGTGGGACTGATAACCAATCACTATCTTTGGAGGA
AGTCTAACCTTTCTTGTATACCCTCCCTATATGTGTAACAGCTTCTCTGTTTTACATTTCAGTAG
TCCATATTGCTATCTTATCACCTTTAGCTCTAACATTAACAACAGCGCCACATACATCACTGTA
GTCATCAAAAGATTCTCCAATAAGGCACAGAAGTGTCTCTAGCCAAAAGCGATCGAGGTCACTTC
GTCTCTGCTGTTTGTTCATGTAATTAGCCATCGTCTCCCGTTTGTCTCTCATCTTCCCACATA
GGCTCAATACCATCCTTAAAAAGTGAGTAGTCACAGCCAGGCATTAAATTACTAGACAACCTGGAT
ATNGTTGNACCTCGGGCCGCGANCACG

SEQ ID NO: 1245 ACTGTCTTCAATCCTATGCGTGCAGGTGTCTACCACAGGCAAACAGTTTTCTC
CCCATTTTGTAGTAATGTGATTTTCTATTAGCAAAAAGAGGTCACCAGCCCTGTAGACTTAAGG
GACTCAAGTCACAGGATGGGGATTTCTCTTAATATTTTTTATTTTGTGTGTTGAACTCTTGATGCA
ACATTGTAGAGCAGGGTGTTCAGGACCTGCTGTGCCAAGGGACTGATAAAGGAAAAAGCTCTAT
TTATTCTTTTTGTGATTTGATGCACAGATGAAAACTTAACACACAATAACAGAAGTTGGTCGTTA
ATAAATCACATCCTAGTCTTTCAGCGCTTCCGTAAGCAGACGACATCTTCAGTTTTCTAGCTCTTGT
AGTTTCAACACTGCAACATCAATGATGCATATGTCCAGAAATCAGTTACAAAGACCATCCGATTCTT
TTTCTCTTAGTTCATCTATTTTCACTGTCTCTTGGTCCCAAGTGTATCTGAGTGATTACCTTCTGGC
ATTCTCTGCTATTGNTTCTGTGGGGTGTCTCTGATTGCCCGCTGTTTTGTGGGCTGGTTGGGAAAA
GGCCCTTGGGAAAGATGTNCCACTGGCNGGANGGTGTGAGTCACTTGGGATGCCTCCAGGGANG
ATCCCTTTCCATGGGCCCC

SEQ ID NO: 1246 AATTGCGCCTTAGCGTGGTTCGCGGCCGAGGTACATCATGCCGCTGATGAAGG
TGCAGGCGAGGGCCACCCACGCCAGGATGTAGGAGTAGCCGTAGCTGCCTTCTCTGGTCACGGGA
TAGAATTTGCGTTTTTGTGCTGAATGTCTTCACGCCTGCTGTATAAATGGAGGCCGCAATCATG
ACACACAGACATGACATTAGCTGGATGATGGAGGTTAGGACAAACCTCTCTCCCTGCTTCAGGCG
GAAGAGCTGGAGCACGAAGATGAAGAAGGCGATGCAGCAGAGAATGGTGGAGAGGATCATGGTG
GCCTGGACCGCCTGCAGCGTGGAGTACTCC

SEQ ID NO: 1247 ACGCGGGCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATATT
GCTACATCGTGTTTCTCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGT
AGAACTCATCTAACTAAAGTAAATTTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCT
AAAGCATTTTTCTATATCTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCA
TTTGGAAGTCACTTGTGAATAGATGTGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGT
TAGGAAATAAAATTTATTTGCNNAANAAAAAANAAAAAANAAAAAANTGTGCGGGGACAT
GTCNGGAACTACAAGAGGTANAAACATTTGTTGATTACCAGTGTTTTTAACTTCTGCTGGGCT
NAAAACTGCTTGTTCGNGGAAAAGCAAACTTACAGCAAACATNTAAATGAAGAGCTCCCAN
CTTTTGAGGAACAAACCGGAATGCATTGGGAACCTCTACTCATGGGCTTTTTGAGCCCCACATTG
CAGGGTGCCANCCCGGAACCTATGCTGNGGANAAGAAAGAAAATTCNGGGAAACCTTGGTNTT
TTTGAGAGGGGTTANCATGNGNGGGCNCCTTCGGGTGNGGGGGGGCCCCNNTNACCGGGAAA
ATTT

SEQ ID NO: 1248 GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGACATGCAAAAAGACAA
TATTTATTTTACTCAAGCTTTCCTATAAGAAGTTAAACAGAAACAATCCCTGGTTGAANACTACCA
AAAATGTTAACATTGTTTCACATATCCCTTCAGTGCCANATGAAGGGAAAACTTAACTGAACG
AAAGAATAAGAATTACCATCCTGACACTGGGTTTGCTTAGGTATGTTAGGAAAAAATCCACATAG
GCTAGACCTAAACAGTAAATGAGCCTACTAATTTCCACAGGGGATGGGAAATCCACTGATACA
GACACCTCCAAGAGCTCCCAAGACCTAGGGATCGCAACCACCACAGGTATTCCCATAACTTCTTTT
TCCCTCCCTTTTCCCTCAGCTATTTTACTGCTAAAAGAAGAGGATGGGAACAAAAGATCACTTCCC
CACTCCAGACTGCATGACTGTCAGCATCAATGTTTGTGGGAATTTACAGCATCCTCTTCATGG
CCATCTAAATAGGATAACAGTAAAAATGGCTNNGGGGAGGCATGGGGTTTTGCTTNCANAATTA
TAAAATCCCTGGAAAAGGAATTAATCTTATTCTATTCCAGGGAAAANCCAAANTTTNTNTNTA

GAACNCGCNGAACCAAAGTTGAAACATTTTCTNCGGGTNNTTTTCCANCCCTCAATTNTGACTTTA
ANAAAACT

SEQ ID NO: 1249 ACAACACTATTTTCATTATCTGGATTGTCCATGCTAGAAATAAAATTCATCCTTG
TTAATTGTATCCAAACCATATTCTTCAGCTAAGGATCGACATCTTACCCTCGAAGAAATGCAGAA
TTGCTGCAGAGTAATTTTAATTCTTTCTCTGAAATGGACTCTGGTGCCTGGCCAATGGACTGCAGC
AATTTGGCAACATGATTACCCACAGCGGCAGCATCTTTCTTTGCTTTTTACGGTAAACGTTTTGCA
GTTTTATATATTTGCCTGAATCTGCAATCATATCAGGAATTGTGCCTCGAACAGGTAAATTTCTTG
ACCCTCTTTGGCCACAAATTCCTTTAAGGCACGAGCTAAAATCCAAAATGATGGAGTCTGTTTGGT
GATATTTATGCAGCGATCATCATTAAATATATCTTCAATACTGCTTGGGATCTGAGTTGTATTTAGT
GCTGTGTTACATTTTAAATAGCTTCTTCAAAATCTCTTTCATCTTCTGGAGCCCCATTTTCATTTTT
TAAAATTCCTTGNCTAATCAAATCTCTGAAGTCCTCTTTTCTTTATCCGTTAAGGATTCGGCCAT
TTGTTTCACTTTCCACTGGGCTAAATATTTTANCTTTGAACCCAATCCATGGAGTATGACTGGGGG
CCCTTTTTTCCATTTNANCCAAATNTTNGACNGAAAATGTT

SEQ ID NO: 1250 ACTNTNTTTTTTTTTTTTTTTTTTAAACANCAAAGANCGGGAGCACGATTGGGT
AATAAAATGTNTATTGAGAATAANACNGCCTTTTACCTTTTAGGGTCTAGGGCTGTAAAGTGTCT
CAGGGTTGCTGCCNAACNACCCATGAACTGGGCTGGGTTTTATATTTGATGAAAAANAGCCTAA
ACGCTTCTGATTTGGGATAAAGAAAAAGGAGCATTAACTTGACTATGCTTTAGCTCCAGCCACC
TTTTTAAGAGTAAATTGCTGGGCAGGTGGGGGAGGGCTAGTNACGGAACCAAACNTANGCCNGA
CCAAGTGTGAGGAGGGGAGGTGATAAAAAGATTACAGGGTGGAGGAGTGGACCTTGAGGAAAAA
TTGGGACCTANCTTGGCGTGGANAGGAGGGGAGAAGGTANATGGGTTTGTNGAAAAGGAAAAT
TA .

SEQ ID NO: 1251 ACAACACCATCTGGCTTCTCTATTTTGAAACTCCACACCAGGTAAATCTTGTT
CATGGCTGTGGCTTAAATCTAAAGTCAGGTTCTGGTGTTTTCTGGAATCCATGCCTAGCTCTTTGAT
TCTGAAACCAAATCTGGATTCTGGACTCTTCTGCATTGATGCTAAAGCAAGTTTTTGTGTTGGTAGC
ATAACCTGGTAAGGTTTTTGAGTGAAGGTATTGATGAGGATTTCAATTGATCTTCTGTGAATTT
GGTGCAATTGCACCTATGATTTGTTGCTACCATCTTGTGTGAAGAGGGGTCTTCAACTATGCAGAA
AGAGAGTTCTGGAGGCTGAGCTACTGTCTGGGAGACTGCTTACAGCTCATTTTTTAAAAAGAAAG
GTCACATATAATAACAATATAAAATTCACAAATCTAAAGCTTATGGTTTTCTGGGTTTTGACAAATG
AAAACCTCCTGTGCAACTTCAAGCCTTACCAGGATATGGATGAAGGGTTTTCTATCCAAAAGCACCA
GTATNTAACAACAACCTTACGTTTTTTGAATTGTCCAGTGCCCTGTGAGGATTCCTTACTCCAAG
TTNTGACAAACATATTCAGAAGGCTANGCTNCAATTANGGTTGGGNAAGATTTT

SEQ ID NO: 1252 ACATTTCTACCGAAGACTTCCC GCCGAAGTGTCTGCCAGTGAGATAAGTGTTA
TGGGAAGAAGTGAAGTAGTGAGCCAGAGGATGGTCCATTTCTTGGTAAAGTTCTAAACGATC
TAGGAAGACTGGGGCGTTTTTCATCTGACATCAGATATCTGCAAAACCCATCACTTGATATAAGGCC
TTTTTCTTCAAATCTTCATCAGGTTTACATCTCAATGATCTGCATTGCCCTTTTGGCATCATAA
AATGGAAATAAAATTTCAATTCAGGATCTCGTTGATGTTTATAGAAAGCTCACTAATTGG
TCTACCGTTAAATAATCAGTTTTGTCTCCATTGATTTTTTTGAAAAGATCTTCTATATCTGTCCGAG
GACAACTCTTTGTGTGTCAGTTTATAGAACTTTTATAAGAAAATGCTGTGGGCTCAATTTTCATCATT
CTTTCCACTGGGAAGACCTAACTCCTTGAGTGCTTGAAAGATCACCTTTTCTGTTTTTCCCGATGCA
AATGTTCTANTAATACTCCTAACTGGAATTTTACCATTGTGTTGGGCATAAAATGCCAATTTCAAT
CAATGGTTTCTTTGAGGCATGTCATTTGGGACTGACCTT

SEQ ID NO: 1253 ACGCGGGGGCAATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGG
ATTCAGTGGCATTGAATCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAGGTTTGGATACATCTGC
TCAGACTACTTCTCATGAACTCACCATTTCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGG
CGCCAAAATTAATGAGATCCGTCAGATGTCTGGGGCGCAGATCAAAATTGCGAACCCAGTGGAAG
GATCTACTGATAGGCAGGTTACCATCTGATCTGCTGCCAGCATTAGCCTGGCTCAATATCTAA
TCAATGTGAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATGCAGATTTCATCC
ATAATCCCTTTCTGCTGTTTACCACCAACCCATGATCCATCTGTGTAAGTTTCTGAACAGTCAGCGAT
TCCAGGTTTTAAATAGTTTGTAAATTTTCAAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAA
TTAAAGCGTTAATTCCTTTCTCTGTTT

SEQ ID NO: 1254 ACCCAGACACAGAAAGTTTTAGGGTAAATAGTAAACTACAAATACCCTCTTG
GTTAAGTTAATTCATCAAGTTAATAAAGGTCATATTATCTATCTTCTGCTGGTGACAACTTGTTGTC
TCAGTATAGTCTGTCTCAAGAAAGAACTGGTTACAGGTTGGGTTTTGGAAAAGGAAAAAGACTTTC
ATTAACCTTCACTCCAGAGTGGAAAGAGGCACCAAGTTCTCTCCTACACTTAGGAGCAGAATCTTAA
CTTGACATAAATCATTTTCAAGTATCAACATCTGCATCCTCAAACCTGTCCAGCAACCGTTGGTGTG
TATCCACCTCCATCCCATCTTCATAATCTCTTATTGAATCTTCTGTCCTGACCCAGCCATATTATA

CTGGTTGCTCACAGACTGAGAAAGCATTCCCTTCTAATCTCTCCAGTGTGGCTTGGCCTTCTGCTGTT
AGATGGGATAATCCTTCTTCATAGGTGTAAAATGTANGGGATGTCCCCCTGTCCTTGTTTCATGTGC
TTCACATCATATTCTTTTTCATCGTAGTCATCTGAATCCTCATCTCAGGATCTGGATGCAAGGCCT
GGCATTNCACATTGGCAGNGGAACATTGCCTTCAACGCTGATTTATTAACCCGCGTACCTTGGGG
CCG

SEQ ID NO: 1255 GGTACCGGATTCTGTCTTTAACCCTCCCTTCGTGTTTCCCCCAATGTTTAAAA
TGTTTGGATGGTTTGTGTTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAA
CGGTGCTAAAAATGAAAATTCTAACCCAAGACATGACATTCTTAGCTGTAACTTAACATAAAGGC
CTTTTCCACACGCATTAATAGTCCCATTTTTCTCTTGCCATTTGTAGCTTTGCCCATTTGTCTTATTGG
CACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAACACACATTGCAGCTTCAACTTTTCTCT
TTAGTGTTCGTGTTGAACTAATACTTACCGAGTCAGACTTTGTGTTTCATTTTCAGGGTCTTG
GCTGCCTGTGGGCTTCCCCAGGTGGCCTGNAGGTGGGCAAAGGGAAAGTAACAGACACACGATGTT
GTCAAGGATGGTTTTGGGACTAAAGGCTCAATGGTGGGAGAGATCCCTGCAGAACCCCAACCAACC
ANACGTGGTTTGCTTGAAGCTGTAACNANANANAAAAAATTCTGGGGCTGGTCTTATTGAAAAT
ATAACATTCTNACATAAAGCCCCAANTTCATTACCATTTCTTCTTTTACCCTTTTNAAGNGCAGN
TNTTTTTTCNCATTAAGGGCTGNTGGGTCCAAACTTTTTGGGGAACACCCGGNCTGTTA

SEQ ID NO: 1256 ACCCACTGGGAGATGATTGAATTATGGGAGCGGGTCTTTCCCATGCTGTTCTC
ATGATAGTGAGGTCTTTCTGTTCTTTCCCATGCTGTCTTGTGATAGTGATGGGTGTTCATGAGATG
TGATGATTTTTAAAAATGGGAAAATGCCCCACACAAGCTCTCTTTGCTGTTGCCATCCATGGGAA
ATGTGACTTCTCTCTCTTGCCTTCCACCATGATTGTGAGGCTTCACCAGCCATGTGGATCTGTAAG
TACCCTTTACATGATTCCCCAGACCTCAAATGGGCTAACACGCTTCTCTTCCAGCAGTCTTCTG
TCCGTGAAGTTTCTTCCAGATTGTTACATGGAAGTGAAGAAAGGGAGCCTCAGCTGGATTTAA
ATCTGGAGCATGCCACAAAGTCTTCCACTTGGCATTTCGAGAAGAACCCTCAGAGATCATAAG
AAATACAAGAACAGAGGTGTCATAACTCGAGGTGCTTGGATATTCATTCTAAGGTTCTTGTCTTG
AGAAAAGTGGGGTTAGGGTGGGTGCATGCCAAGAATCCAAGTNGGTCAACCCTTTCANCCTTAA
CCTACTANTTTTGACAT

SEQ ID NO: 1257 ACCTAGAAGAGAGGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCAT
AGGCTATCCCATCACCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAG
AGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAAGCCCAAGATCGAAG
ATGTGGGTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAATAAGAAGATCAA
AGAGAAATACATTGATCAGGAAGAATAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATG
ACATCACCCAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTG
GCAGTCAAGCACTTTTCTGTAGAAGGTCAAGTTGGAATTCAGGGCATTGCTATTTATTCCTCGCG
GCTCCCTTTGACCTTTTTGAGAACAAGAAGAAAAGAACAACATCAAACCTCTATGTCCGCCGTGTG
TTCATCATGGACAGCTTGTGATGAGTTGATCCANAGTATCTCAATTTTATTCGGTGGTGTGGGTGA
CTCTGANGATCTGCCCTGACATCTNCCGAGAAATGCTCCACCAAACCAAAATCTTTGAAAGTCATT
CGAAAAACATTTGTAAANAAAATGCCTTGGGCTTCTTTTTTTGAACCTTGGCCGGAAGACAANG

SEQ ID NO: 1258 ACAGTTGGAGGTGTTCTTAGGTGGGCGGATTGCTTGAGGTGAGGAGTTCAAG
ACCACTCTGGCCAACATGACGAAACCCCGTCTCTACTAAAAATACAAAATTCAGCCAGGTATGGT
GGCATAAGCTGTAATCCTAGCTACTTGGGAGGCTGAGGCATGAGAATCAATTGAACCCGGTAGA
GGCGGAGGTTGCACTGAGCCGAGATCGCGCCACTGCATCCAGCCTAGGTGACAGAGGGGAGACTC
TGCCTCAAAAACAAACCATCCCTGTCGCTCCCATCCTAGACCAGTCTAATTGCAAGTATCTCACAG
GGAGCCCAAGTATCAATGTTTTTTGAACAGCTTTATGGAGGTATAATCTATATACCATAAAATCC
ACTTATTTTAATATATGATTTTAGTAAATTTAAAGACTTGTGCAGCCCTTACCACATCATACAAACC
AGAATGTTTTTCATCCCCAAAAAAGAACTTCATGTCTATTTAAGCACTCCTGGTTCTACTTCCACTT
CTAGGGGGGCATTAATCTGA

SEQ ID NO: 1259 ACAAAGTCCAAATCTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGA
TCACCACGGTTTTTCAGCCATGCTCAGACAGTGGTTCTTTGTGTAGGTTGTCAACAGTGTGTGCCA
GCCTACAGGAGGAAAGGCCAGACTCACAGAAGGGTGTTCATTTAGAAGAAAGCAACACTAATGA
TTCAAACAGCTTCTGAATTTTAATTTTGTGTTGTCTCACAGAAAGCCTTATCATAAATTCCATAAT
TCTAATTAATTTACCAAGATAATGTAATTACATTTGGTTTTGTAAAGGTATACAGCAGTAATCTCCTA
TTTTGGTGTCAAGTTTTCAATAAAGTTTTGATTATGGGCC

SEQ ID NO: 1260 ACTTTTTTTTTTTTCAAACCATGCTATTGAATCAAGAAAAGTAGAAAAACTGAA
TGTTAAAAATTAAGGTTTTAAAGCTCATTTTGGTAAAAAAAATAAAATTGAGATACCTTATGGT
TGAAGTTTTGGTAGGGAATGCCACCAGATTAAAAAACAACAACAACAAAAAAGAACCTTACT
GTTGCCAGTATTTTCCCTCCCTCAAAGACACTGGCAAAGTGCATCTGTTTAGACAAGGTTAGAGC

CAAACCATATCAGTTTTCAACCATGCTATTAAATTGTTTAAATGGTTTCTAAAGCCTTAGCCCAATG
AGTGACCCAACTTGTGTGTTCCAACATAAATCCCTCTGCCAAGAAATGAAGTATAAAATGCCTTTC
TCTCAACAGAAAACAGAGCAGACACAGAAGCAGCTACATAAGGAAAGGAGCTGAGAACATTAGCA
TTATTTTGATAGCGGCTATTTGCAGGGTAAGACAAATTAGCTAGCATTTTACACTAACTGGAATGAG
AACAGCATGGCATNCAAAGCAGGTGATCAGTCATCAGTCATTGGATTAAAAACCAGGCACCACCA
AAAAACAAAACGNCAACAGCAACCAAAATACCCTGGCTTACCNNTACATAACCAAACCAAGGGG
GAATTTTCCAGAAGTTTCAAAATTTCTTAATGGAAGGGGAAATTNGAGAAACCAATTTTCA

SEQ ID NO: 1261 GGTACGCGGGGGGGAGTGATCGAAAGCATGGCGTCGGTGGTGTGGCGCTGA
GGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCTCTTGCTGTGATACG
CATCCAAGAAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATCAGGCAGACGCCAAGG
CATTAAGAAAATGGAAGGTCATATGTTTCATGCTGGGAACATCATTGCAACACAGCGCCATTTC
GCTGGCACCCAGGTGCCATGTGAGTTGCTCCGTTGCTGCCCCCTTTTTCTTTTCTAGGTTGACC
TCTCCTTGCCCCTAAGCATGGTAATAACAGTTGCATGTATTGAGTGCTTACCAAATGGCAAGCATT
GTGCTGATTCCCATGCCTACACGATCTCATTTCTTCTTACCACATCCCTGTAAGTAAGGTGAAATG
CCAGAGACCNAGACGGGGTGGAAAGGACAAGTGACTGCTGGGATTTGCACCANGTCTGCCTAACTC
CANATCACTATGATTTNCCCCGGTGTGCAATTGGCCTGGTATTCTTTGGTTCTCTTTCTAACCTC
ANTTCTTGAGGACAANAAAACCTGGNGAATTTAAAATATTATTTAATCTTGGGAAACTAATTTCA
AAATTT

SEQ ID NO: 1262 GGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTA
ATTGCTGCTCTGCTTCAACAATGTGCAACTCATCCTTTGCACCAGCCCCCTAACTGACCGTTCTT
AAAGATAACTGGTGCTCATTTTTTCATTATCCACCTTAAAGTGATAATCTTTGTCGGCCTTTAGTTCA
CAACCGAAAAGATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGTCCATCGAATCTTCCATCGGG
TGCGCGCACGCACTTAGGTAGGAGAGAAGGCGGACGGAGATAAAAGAACGCTGCTCCAGAGAAC
AACCGCGCAGGACGGAATCACACCAGGGACCCCGCT

SEQ ID NO: 1263 ACTGTGTGCAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTAC
CAAGGAGGGTCTGGAGCTGCCTGAGGATGAGGAGGGGAAGAAGAAGATGGAAGAGAGCAAGGC
AAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAAGAAGGTTGAGAAGGTGACAA
TCTCCAATAGACTTGTGTCTTACCTTGCTGCATTGTGACCAGCACCTACGGCTGGACAGCCAATA
TGGAGCGGATCATGAAAGCCCAGGCACCTCGGGACAACCTCCACCATGGGCTATATGATGGCCAAA
AAGCACCTGGAGATCAACCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAGGCTGAGGGCCGA
CAAGAATTGATAANGCAGTTAAGGACCTGGTGGTGCTGCTGTTTGAAACCCGCCTGCTATCTTCTGC
TTTTCCCTTGAGGATCCCCANACCCACTCCAACCGCATCTATCCATGATCAAGCTAGGTTTAAAGT
TTGATGAAAAATGAAGTGGAACCCAGAAACCCCAATGCTGCANGTTCTGATGAAGTACCCCC
TCTTCAAGGGCGATTAAGGATNCCTCTCCGCTTGGAANAAATCCATTAAAGGTTNGGANITCATANT
TTGGAACCACTTGTNCCCCCTTTNTATATTGTTCCCAATGGGCTTCCANCTGCANCCCT

SEQ ID NO: 1264 ACTGGCTGGCCTATGTCCTGGGTCTGTCCTCAAGAGCAATAATTGTTTCAATGAC
AGGTCAAGTCACCTCCAGAGTGATAACTAATGTAACCAAGTCTGTGGTATTCTGTTACAGCAGCA
AAAAGCAGACTGAGACAGTTGGTCTTACAGAGACAGACCTTTTCATATTCGAGGATATTTATCCT
TCAGGGATACTTCTTATTTTCTCAAGAGTGGGCGAATCGCATGGCGTTGTTGCAAGCATCGTC
TGAGAACCAAGGTAAACGAACCTGACTGCTGATGTCGAAGGCAGGCACTCAACGGTAGGATTTTAAAGT
CCACAGATATGGGAATGAAGAACTCCATAGAAGATAATGATGGAACTGTAATCCAGCTACTTG
GGAGGCTGAGGCAGGAGAATCCTTGAACCCAGGAAGCAGAGGTGCGAGTGAGCCGAGATCATGC
CATTGTGACAGGAGAGAACTAACAGGAAGTTGGGTGGAAGCAGCGCGGACCCACGGCGCACCG
AACGCACTTCCCCCGCGTACCTCGGCCGNGACCAG

SEQ ID NO: 1265 GGTACGCGGGGAGAAGGGGAAGAATATGGAGGATAGGAGAGGGTGATGATG
CTTTAGCCCATTAAGGAAGAAAAGTTCCCCTTACTCTTACAAAAGGTGATTGCACCACTTAAAAAA
GGATAGGTAGAAAATCTGGCCATTTTATGTGTTATTTTTTCTGTCATACCAGTGCCCCCTGGAAA
GATGGGGATGCTCATTTTACAGAGACAGCCTCTTACCTGTCTCCGCTCTCCATTACAGAGCCACA
AGCCAAGCTTGAGTTACTGGTTAATTTCTTGAAGTCAATAGAGACTCTCTGGGTCTCTATCCCCA
TGCATATATGCTGTTGGGAGAAGCAAGCATTCTCCAAAACAGGGCTGTTGCTTTCTTCTGGCCGCAT
ATGTGACTGTCTTCCCCTAGACTGATGGTATACTTTTGAGAGGGGCGGATAAAGGTTTGCAAACCTT
TAATGGGCATAAGGATCCCCTAGAAGCATATGTAAAATGCAGATTCTTGCACCCCAACTGCAGAC
ACTGTTAAGTGAGGACTGGAGTGGGGCCCCNGGTCTGCATTCTTNACTGGTACCTGCCNNGGCCGGC
CGNTCGAAAGGGCGAATTCCACCCACTTGGCGGGCCGTTACTTATGGATTCCCAACTCGGTA

SEQ ID NO: 1266 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNCAANATANAATCATANAATTTA
AAATCTGGAAAACTNTCAGGGATANACNCTGTACATAACCCTNTGCCACTGCCCAANATTCCA

AAGCTGGGGCANAGCTGGGACAACCTCATAAGCAGCANACACGGNTACCTGTCTNTTACCTGCCT
 NTGTGTCAGCTGCACTCATGGAAGGAGGGGTCTNAAAGGCTATCCCAANACAAAAGGCTTCAT
 GCCCAGNATTCACACTNTCATTTCACAACATCCTATTTATTTTGTATCCGGGANACNCCCTCAAT
 CAGGAACTTACATGTCCACACTGCACGCCATNTGATTNTCTCCAAGTAGGAAGGGCAANAGGAAC
 GGNAGCCTCGTGTGCTGCCCTACCAAGCCCGCGCCTTAACATCTTTGCGATGTTAGAAGTCACCAAGT
 CTGATCAACTGGGGCTTCAGGATTCTTACCTGGAAACAGGGGAAAANTGGGAGGGGAAAGGAGGTG
 CCCCTCAAAAAATTGTTANAAGGTTTAAACTTCCATGGTTTTTTAAAGGNGGNCCCNTAAACA
 CCTGNNTCANAATCCTGNGGGGAAAAGTTACTCAAAATGGCAGGGNTNCAAAANCCCCCCCCCAAA
 NATTCTTGGAATAAAAAAAGGTTTGGAAAGGGGCTTGCATTTTTCTNTTCCAAAAAN

SEQ ID NO: 1267 GGTACACAAAGAGGGGGTGGGTGTCGGATGCAGAGTGTGTGGCCTGATGCTC
 CACGGCGTGCAGGACGGGGGGCTAATAGTAGGTTTCCTTCTCCACCCAGCCGCCAGGGCGTGCCT
 TGATGATGAGTTTTCTGACTTCGTCATATACGAAGATGAGAAGAGAGTAGGGGAAGGCACAGAAC
 CACCGGGTAGGTTTGAAGGGGATACATCCTAAGAGCAACACCCATTCCAGGGCAGTAGGAAAGGA
 AAGCAGCCAGGGCTGTCTCTCAAAGAGGGCCAAATATCAAGATCTTGTCTTCATCCCCTGCTGGA
 AGACCGAATTCCTCCTGGTCTTACAGATGACCAAGTCGGCCCACTGCACCACCACGATACTGACG
 AAGAAGGCTGTGTGGCAGGTGAACCTCCACGATTTTCTCTGCTCATAGGTCCACTGCTGCCCCGTA
 CTGTCTTCCACATCGTTGATCCACGGTCATCCAGTCCACTCGGAGGCCCAACANGTGAATTGGGA
 GGAAACCGTTCTCANCCANAATCACAAAGTAAGTAAAGAAGCCCTNCCAAGGCCCTGGATCATTCCA
 ATCTTGCCCATAAAGCCATGCTGATCANCCGTTTCAATTCACAAATTTTGTCTGTTTGGGAATTCTNGG
 CCTGGCTCTTTATGAATGTCACTCTCAACCTACTCATAANCCNAGGGAAANTGGCNGGGAACCAT
 TTNANTGC

SEQ ID NO: 1268 GGTACTAGCCGGACTTGGAATTTCTGGAAAGATTTCAGTTGAGGAACGGGAA
 CAAAGATTATGATAGCTTTCCGACCACCACCAACTTCAATTTCCCTAGCTGCCGTAATATTCAGCT
 CCCTGAGCTGAGCCTTGAGGTCCGAGTTCATCTCCAGCTCCAGAAGAGCCTGGGAGATGCCGGAC
 TCGAACCCTGTCGGCTTCTCGCCATTGGGCTTACGATCTTGGCGCTCGAAGTGAACATGGCTTTCT
 CCTGGGAGAACTTGCCGAGCGCCGGCTTAGGAAGAGCCCCGCTACTAATTTATAATCATTTTCA
 ATTAACCTTCTTCTGTTTCTGTTTCTTCAAATCATGGAAAGAATCCAGTTCATCATCTAGGCAAT
 TCACATTTACGTGCTTGAATAAGCTGCCCAATGGTGTCTACAATGCTTGCTTTTCATCAGAATATTT
 TAACGATGAACCAACTTTATCTCCAGAGTAAGATATCCAAATCACCTGGGGAGGTTAGAGTTTCTT
 CTCTTATACTTAGACCTGATAAAAAATTTGGAAAAATCATACTCGTCGGGGGCAAGCTGCCCCCGAG
 TCATAAGCGGNTTTTTGAGACTCTCCACTANTTAAATTCCTTGCCCCGNTGGCTTTGACNACCCTT

SEQ ID NO: 1269 GGTACCCCCACGATTACACAGCTTTGAACAAGTGAAACTATGGTTACCAAAC
 AGCTATTTTATTATAGCATCTACAGTGTCTGGAAAAGGATGTAACAATAAATAAAGTGTAGACGCA
 TCACGAGACATCCATTTACTTAATCACAGAAGTGGATCTTGCTACATAGTTTTCTCAATGTCTTCAT
 TCTTCAGATTCTCCAGGCTTACGAATGTCATCAATCTTCAAATCATTCTAACCATTTGTGTTGCAA
 GAGATATCTGTTGCTTTTGGCAATCAAGGTTTCTATGACATGCTGTTGCTTCATATCATTTGTCCC
 CTTGTGCAAACAGTCGATGCCAAGAGCAGGGTTCATCTCCTTCACCTGTCTGGCTCGGACTTCGGT
 CATAGTCTGGATGGGATTCATGCCACTGTTTTAGAGAGGGGCCATGGGGATGACCTCCAGTGCCTC
 GGCAACAGCTCTCATGGCATACTGTTCTAAGGTGGGGCACTTATCCCCTCTTGGCTAACTGGCAG
 GGCACAAGATCTAACAGCCCCCTNCTTACACACCAACAGATTATCGCGGATGAGGTTCCGGAT
 GACACACAAAGCATCGTGAAAGGGATCGTTTCGCCTCCTCAATGATCATCTTATTTCTCTCTAA
 AAAAAATGGGTACCCTTTTGGAGTCTTACANCTGCTCGANGACCCANNATTTTATNCTTTAGTT
 T

SEQ ID NO: 1270 GGTACAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAAT
 TCTTCCATGCTGGGGCTGATGTGGGCTAGTAAGACTCCAGTTCCTTAGAGGCGCTGTAGTATTTTTT
 TTTTGTCTCATCCTTTGGATACTTCTTTTAAAGTGGGAGTCTCAGGCAACTCAAGTTTAGACCCCTA
 CTCTTTTGTGTTGTTTTTGAACAGGATCTTGCTCTGTACCCAGGCTTGAGTGCAGTGGTGGCAT
 CACAGCCAGTGCAGCCTCGACCACCTGTGCTCAAGCAATCCTCCCCTCCATCTCCCAAGTGC
 TGGGATGACAGGCGTGAGCCACAGCTCCCAGCCTAGGCCCTTAATCTTGCTGTTATTTTCCATGGA
 CTAAGGTCTGGTCTATCTGAGCTCACGCTGGCTCACACAGCTCTAGGGGCTGCTCCTCTAACTCA
 CAGTGGGTTTTGTGAGGCTCTGTGGCCCAACAAACCTGCATATCTGAGCAAAAATAGCAAAAGC
 CTCTCTCAACCCACTGGCCTGAATCTACACTGGAAGCCAATTTGNTGGNACCCCGGTTCCCAACC
 CTTTTTGTGCTGGGTAGGAGANGCTAAAGAACCCCTAAATTTACTTAATCTNTNAGGGCTGCCN
 TACATTTGGGGCCTTAACAACTNCCCACNCCAATTTNAAANGNACCCCTNNTTTTTTGCACCTG
 N

SEQ ID NO: 1271 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNAAAGGTTTTATGAAATA
 TGGNCTAATAGTATGAAAAAATCAAANCCCATGTNTGTTTANTTAACAAGGAAAAACNCAGNGA

TTTAAATGCTGCACATAAACTNFTNTTAAAAATNATGNGGGCATTGNGCTCCCAGNGGTCCACAGC
 ATTTACATATAAAAAATCTAAAAAGTTTNTCATAGTCCAAANCACTGNGGTTCAGGGTANCAATCAA
 TACCTATATATAAATGATCTGTTAGNCAGGTAAATGGAAAGCATTACAGTCAATCNTCCAAAA
 TATNTTCATCCAAATGATATCTGNNGNGTCAATATCTTCTAATTCCAAATTATCCAAATCTACTTN
 TAGTTCNAGTAAACTCTTTTCTTTCTTTGTTGGCTGNGGGGGAGGCCCAATAACCCGGAGTAGGAAA
 AGCAGGTTTCCCATCAANGTTCCTGTGTGAGCTGTAAATCTTGAGGGCTGAAAGTCTTTTCCCTCTT
 CCAT

SEQ ID NO: 1272 GGTACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTT
 GGTGACCAGGGAAGTCACCCACGGCTATGGGGAAATTAACCCGAGGCTTAGCTTTCATTATCAC
 TGTCTCCCAGGGTGTGCTTGTCAAAGAGATATCCGCCAAGCCAGATTTCGGGCGCTCCCATCTTGC
 GCAAGTTGGTCACGTGGTCACCCAAATCTTTGATGGCTTTCACCTGCTCATTACAGGTAATGTGTCTC
 AATGAAGTCACACAAATGGGGGTCAATTTTGTCAAGTGGCCAGTTTGTGCAAGTTCCAGTAGTGACT
 GATTCACATTTTTTTCCAAATGTAATGCACACTCCATTGCATTACAGCCCGCTCTCCAGTCATCACA
 GTCTGGTTTCTTGATATCCTGAAGGAAGATTTCGGCCACCTCGTTGGTTCTGCAGCTTCATCAGTTTC
 TCACATGTTCTCTCTCATGAGATTGGGTGAAGAAAAGTNTTGGCCCCCGCGT

SEQ ID NO: 1273 GGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTG
 TGGTGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGGCGTCTCTGTCTCG
 CCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAACATCATATACCTCTTG
 AAGAAGAAGGAGTCAGCCATCGCCAACTTGTCTGTGATAGAAGCTCCGGGTGATGATTCCTTGCA
 CTGTATCATTTTCATGCTTTGATTTACACTCGAACTCGGGAGGGGAACATCCTGCTGCATGACCTATC
 AGTATGGTGCTAATGTGTCTGTGGACCCTCGCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGA
 ATGTTGTGTAACAGTTAGCCACTGCTGGTGTATGTGAACATTCCTATCAATCCAAATTCCTCTG
 GAGTTTTTCATGTTATGCCTGTTTGCAGGCAAATGTAAAGTCTAGAAAATAATGCAAATGTCACGGC
 TTCTCTATATACTTTTGCTTGGGTCAATTTTTTTTCCCTTTTAANTTAAACCATGACTTTAAATGGGGA
 AGCCTGTGTTTTCGGGGGAGAAACAAAANAACCAACTTTTTTTTNTTCCCTTGCCCCCAATTTCCCA
 AACTTANAATTTNAAGCTTATTTTTTTTTTTTTTGAACCCCTTTANCAAAATGATCTTGTNNGAAA
 G

SEQ ID NO: 1274 ACACAGGCTGCTACCCAAGTTGTTCTGAATGTTCTGAAACAAGAGTAACAT
 GTTTAGAAAGTGGACTCAGAGTAGCTTCGGAAGACTCTGGGCTCTCAACATGCACAGTTGGACTCT
 GGATTGATGCTGGAAGTAGATACGAAAATGAGAAGAACAATGGAACAGCACACTTCTGAGCAT
 ATGGCTTTCAAGGGCACCAAGAAGAGATCCAGTTAGATCTGGAACCTTGAGATTGAAAATATGGG
 TGCTCATCTCAATGCCTATACCTCCAGAGAGCAGACTGTATACTATGCCAAAGCATTCTCTAAAGA
 CTTGCCAAGAGCTGTAGAAATTCTTGCTGATATAATAACAAAACAGCACATTGGGAGAACGACAGA
 TTGAACGTGAGCGTGGAGTAATCCTTAGAGAGATGCAGGAAGTTGAAACCAATTTACAAGAAGTT
 GTTTTTGATTATCTTCATGCCAGCTTATCAAAATACTTGCACCTGGACGGACAATTTTGGGGACC
 AACTGAAAATATCAAAATCTATAAGTCGTAAGGGACTTAGTGGATTATTATAACACACATTTTTAA
 GGGGCCAAGAATAGTGCTTGCTGCTGCTGGGAGGGGGTCCCATGATGAATTGCTTGACTTAACC
 AAAGTTTNAATTTCCGTGACTCTTTATGCCNCNCCCAAAGGAGAAAATACCAGCTNTTGCCTTCCCT
 GCA

SEQ ID NO: 1275 ACCCTTGGAAGATGGGAAAGGTGAGGGAAATATTTGAAGCAGGGTCAGAAC
 ATCCACTAAGAACATAGCACCTCAGTAGAGCTTACATTATAGTGCCAGGGTAGAGTTATTACTGA
 ATAGCTTAGGATGATGAACATTAACCTTCCTACAGGAGTAGTAGCAGCTGATTTGGTGACCATCAT
 TGGTCACCTTTTAGTGTAAGTCAAACTAAGAACAATTATGGCTTGACATATACTCCATGTAGGGA
 AGTGATGGGAGAGGCAGCCTCTGTGTGGTCCATCCTTGGAAGCACTGCATCGATTTTGCTCCCCTC
 TGGTTTTAAGGAGATCTTTTAGACCTTTCCTTGCTAACTGCTTTCAGTAAATTCCTTGATGGCCTTCG
 ATTCTGGATTACAGACATCTCTTCTCACCTTCTTTTTTCATTGTAGCAATGATCTCAACACGTGGACA
 AAATTGGCTTGCAAGGAATAATTCAAGTTTTTCTAAAGACCTTGGAATTAACAGGTTGATTACTAAT
 GCTGATGCAAGGTACCTCGGC

SEQ ID NO: 1276 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGTANAATATAAAAGAAATTGAGAGCA
 TAGGTTTAATTTTCAATTTTATAAGGAANACTACATTTACCTGAAAAANAAATATGGCATCACACAC
 AAACACNCTTCAGGGAAGGAGTATATTTAANAATATGGNGTCATTCTGAATGCTAAAGGAAAAGN
 GATCCCTGTTTACTATTAAATATGTAGTGTAATAATCTTTAAAGGAAACAACCTCACTAAATCTCT
 ACTAGGTAAGTTATTGNGAATTTAGTTTTCAAATCACAGTAATCCACATAACCATTTAAACAGCT
 NTGTTTCATANAAGTCAACAAGCCAACAACATTTAAATGCACCTTCACATCAANAGTATGTAA
 CTTTATTTTTTCTCTTCAAGCCTTCANAAAGTTAGGGGCTATTTTCAGCAGCCAATCTGGTCAGAAC
 CTCTGAAGGCAAAATTTCAAGTGCCTCACAGTGTATATGACCATCTGTTGCACTGCCACATNTTCCG

CGTACCT

SEQ ID NO: 1277 ACGCGGGATTGATAATAGGGTGCATTGTTGCTTTTACTTTATTTACCTTTTGG
ACATGGACTTAAGCCCTTAGATGTGGCGTTTATGAAGGCAATACACAACAAGGTGAATATTGTGC
CTGTCAATTGCAAAAGCTGACACTCTCACCCCTGAAGGAACGGGAGCGGCTGAAGAAAAGGATTCTG
GATGAAATTGAAGAACATAACATCAAAATCTATCACTTACCTGATGCAGAATCAGATGAAGATGA
AGATTTTAAAGAGCAGACTAGACTTCTCAAGGCTAGCATCCCATTTCTGTGTGGTTGGATCCAATCA
GTTGATTGAAGCCAAAGGAAAGAAGGTCAGAGGCCGCTCTACCCCTGGGGTGTGTGGAAGTGG
AGAACCCAGAGCACAAATGACTTTCTGAAGCTGAGAACCATGCTCATCACCCACATGCAGGATCTC
CAGGAGGTGACCCAGGACCTTCATTATGAAAACCTTNCGTTCTGAGAGACTCAAGANANGCGGCAG
GAAAGTGGAGAATGAGGACATGAATTAAGACCAGATCTTGCTGGAAAAAANAANCTGAACTCC
CCGCATGCCAAAANATGATTGCAAGGATGCAGGGCCCANATGCAAATCCAAATGCAGGGCCGGG
GATGGCNATGGCGGGGCTNTTCGGCCCCACCTGTAAGGNGATGGGCCCTTNTCAAGAAATCNGAN
AAA

SEQ ID NO: 1278 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTCAAANANAATTTAATCT
GAAAAATTANCANANATTCTGCCTTCACAATTANAGTTAACATGAGTCTTCCAGTGTTTAAAAA
NAACTGTANTATACATAAAGCAAAATATTTTGGCATCACCTAGTGAAAACANACGATGNGGTNTT
TTTTCANCCATCTCATATAGTTAGGCCCCGAGTTACAATTTGANATAAGTTGATTCCTAAACANAA
TGNGCTTTACANAATGNGACCAATTTTATTACTCCCAAGGACCTTGTTTCAAATTAATNTTAAACC
ANAGTTCACTGATCTCACATTTTAAAAAGAAAAAGTTTGTTAACTGTTTAAATCAATATGAGTAG
TAACAAAC

SEQ ID NO: 1279 GGTACGCATCGAAAGGATTGACGGCGTGAGTTTACTGGTGCAGAGAACCATT
GCAAGACTTCGCCTAAAGAAAATTTTTAGTGGTGTCTTTGTAAAAGTCACCCCCCAGAATCTAAAA
ATGCTGCGTATAGTGGAACCTTATGTGACCTGGGGATTTCCAAATCTGAAGTCTGTCCGAGAACTC
ATTTTGAAACGTGGACAAGCCAAGGTCAAGAATAAGACCATCCCTCTGACAGACAATACAGTGAT
TGAGGAGCACCTGGGGAAGTTTGGCGTCATTTGCTTGGAAGACCTCATTCATGAAATTGCCTTCCC
AGGGAAGCATTTCCAGGAGATCTCATGGTTCTTGTCCTTTCCACCTCTCAGTGGCCCGTCATGC
TACCAAAAATAGAGTGGGCTTNTCAAGGAGATGGGCACACCTGGCTATCGGGGTGAACGCATCA
ATCAGCTCATCCGTCAGCTGAACTAGACCCANGTGANGCAGGGGCTGAAAACCTGCCCTTGGGCTG
ACTTTTGATANGCCATGCCTTTGCCACTTTACAAGTTCTTTTGCATTTNACTAGTATTTAAAGAGT
AACCCTTGANATTTGGGAAGGAATAAANGGAGGCTGGTNCCTGCCCGGGGCGGGCGGTNCAAA
A

SEQ ID NO: 1280 ACAATTACCCACCACTGGATTGACTCAGAGAGGACCCCCAGAGGGTGTCTC
CATCTTCCCTATTTATTTTCAGCCCTTGAGGGCTTCATTGTAGATCAAAGCCAAGGCCCCAGGAA
GGTGACATACTCCTGGAAGTTACCTCCTGGTCCTTGTTCGGTCCAAGTCTTCCATCAGCCTTGCA
ATTTACGCATCCTGCAGCTTCTAATGTGTTAGAATGTGAAATCCATACTCAGTGGTGATGACAACC
CTGGATTCTTCCCCTTCCCCCTCCAGGCAATCCTCTCTGCAAGTGGCTCTGTGCTCCCTCATCACC
AAGGACCCATGTCACTTTGGCATGTCTCTCCTCAGCTACTTCTCAGTTACTGGTCTCATTTGGAG
AGATGGATATCCGGCTGGAAGCATCCCCTACCCGCTGGGAGAGTGGGTCTACAGCTCAGGGTCTA
CATGTGGACCANGGCCTCAGAATGTGGGTAAATGTGAGTCCCGGTACCTCGGCCGNGACCACGC

SEQ ID NO: 1281 ACTTTTTTTTTTTTTTTTTTTTTTTGGGCTTATTTTCTTTGGAGGGAGGGTCTTGCT
TGTCATCCAGGCTGTAGTGAATGGGCATGTCATAACTCACTGTATCCACAACCTCCTGGGCTGAAA
TGATCCTCCAGCCTCTGCTTCCCAAGTAGCTGGGACTACAGGTAAGTGCCAGCACATGTGGCTAAT
TTTTTTACATCTTTGTAGANATGAGGTCTCACTATTTTACCAGGCTGGTCTCAAATTCGTGGCCTAT
TGTGATCCTACCAGCTCAACCTCCCAAATCGCTGGGATTGCAGACATGANCCACTGTGCCTGACTC
AAAAATCATACTTTATTCTTGAGCCCATTTGGTCAGGGTANATTCGCACACTCCCTCTGCAGTGACT
CCAGGAGCCCCCTCTCCAAGCTCAAANCGGAAGCTGAGCTGCAAGCCTGCCATCTTCTCCGCATAG
TCCGGATNGAAGCGCTCATTCTGCGCCACGGTGAAAGNNGTCTTTCCANTCCCCANCCATGCCTTT
NCTCATGAAAGGGGAGATGCTGNGGTCCATGAACNCCTGGGGGGACNGNGNGGNTANTTGGTC
AATANGGTTCTNTNTNATTTTCTTTTNAACGACCGGGNCTTGAACCATTGAAGTCCANTGNNTCCT
CTTGGCANGGGANCGCCACNAANTCCAGGATCTTTTTGAAANCTCCCTTTTGGGG

SEQ ID NO: 1282 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANATGGAGTCTTGTTCTGTANC
CCAAGCTGGAGTGCAGCGGTGCAATCTCGGNTCACTGCAACCTNTGCCTCCCAGGCTCAAGGAAT
TCTCCTGCCTCAACCTNTGGAGTAGTTGGGACTGCAGGCATGCNCCACCACACCCAGCTAATTTTT
GNGTTTTTAGTAAAAACAGGATTTACCATGTTGGCAGGCTGGTCTTGAACCTCCTGACCTCAAGTG
ATCTGCCACCTTGGCCTCCCAAATTGCTGGGATTACAGGCCTGAGCCCTGGCTGGCTGAAAT
TTTTGATTTTAAANACCTTTAACTTCCCTAATCTGCCTATCTAGNGCATATTCGCGGTACCTCGG

CCGNGACCACGC

SEQ ID NO: 1283 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCACACCTGCCCTTTATTGGTCTC
TTCTANCANAGTGGCTCCAGGCCCTTCACGCCTNTCAAACACCAACCATGAGGGTTTAGGAAGGN
GCCATCATTCTGTGAAGGCCCANAGCTTACCCAAGTCTTGAGCCCAAGTTGAATCACCAACCAN
AGGGTTGGGAGAGGAAAAGGAAACAGGCANAGGGGAAAGGCAAGGCTCTGCAGTGAAGGGGAC
TGATATCAAGGGAATGCTGAGGTCCAGCAGTGTCTCCTGAAGGCATGCTACATCCTAAGGCTCCTC
AGGACTGGATGGAGTAGGANATCTGTGTGTTGAGCANTTCACATCTATATGGCAACTTTAAGGAG
GCNCTTGATGTCAGGCTCAATGTTTATGGNTGGGAANGTGCGGNTGTAACGTCGGAAGGGCTCTC
CCTCCGGCCCTATGAGGAACTTNTCAAAGTTCCAGGCCACATNTTGAAGCGGNGCACAGGGCTTC
CAAANGATTGAGCCTTGNGAATCGGNCATGAAGGGAAAATNGGGTCATTATAAGGGNANGGGA
ACTTNGCCTTCANGTT

SEQ ID NO: 1284 ACGCGGGGAGCGTCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGC
ACCAGGGACTCCAGCCATGCCATGGCGGATTCTGAGCGCTCTCGGCTCCTGGCTGCTGGGCCG
CTGCACCAACTTCTCGCGCACTCGAAAGGGAATCCTCCTGTTTGCTGAGATTATATTATGCCTGGT
GATCCTGATCTGCTTCAGTGCCTCCACACCAAGGCTACTCCTCCTGTGCGGTGATTGAGATGATCCTT
GCTGCTATTTTCTTTGTTGCTACATGTGTGACCTGCACACCAAGATACCATTCACTGAGGCTT
GGAGTGATTTCTTCCGAACCTCATAGCGGCAATCCTCTACCTGATCACCTCCATTGTTGTCCTTGT
TGGGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTCTCGGCCGCGACACGCTT

SEQ ID NO: 1285 ACTGGAATTTGCATATCTGTAGAGTGTATCTAAATATTCTGCCTAAAACCA
TGCTTGTCCGCCAGGTAGTCAAAGAGCATCCTACCATCCCTGGTTGACTGCATTTGCCTTGTAGTTT
CTGGATCTTCAAACATCTTCACAAATTGGTTCTGTTTCTGCCTGAAGCTGTTTCAGTTGTGCAACCAC
TGTGGTTCTTTTCTCTCTCAAAGCATGAGGAATATCATCAGAATAAAGGTTTTTGTATACATCCATA
GCAAAGTCTACCATGTTGGTATCACTAAGAAGGTCCAATTTACCTTGTAAATAATTCCTTTTCATTAT
ATATCTCCTTTACAGAGAGAAATTCAAGAAGCGGAAAGACTAGATGCCGATCCAAAAGTGC GCG
ATGCGAGTAGTCAAGTCGTACC

SEQ ID NO: 1286 GGTACAGACCAGTTATTTTGTAAATGTTCCCCAGTGTGGGTTTTATCTGAGGT
TTCCTCATGATTAGATTAGACCATGCATTTTTCGGAGGATTACCACTAAAACAATGTTGTGTTCTC
AGTGCATCCTATTTGAGGCACATGATGTCAATTTGTTCTCATATTGATGAGGTTAACTTTTATTATT
TGAATAAGGTGGTATCTGCCAGGTTTCTCCACTATAAAGTTACTGTTTTTCCCTGTTAAATTAATA
AGTCATTTGTGAGGAGTTTCTTTGAGACTATTTAAATGTTGTGTTCTCCAAAAAAGAAAAA
GAGAGAGAGATCAGAAAGATTTGGTGGCTAGGTGCANTGGCTCACGCCTGTAATCCCAGCACTTT
GGAAGTCCAAGGCAGGCGGATCACCTGGGGTCAGGAGTTTGAGAACAACCTGCCAACATGGTGA
AACTCTGTCTCTACTAAAAAATAACAAAAATTNCCNGGTGTGGTGGCGCACACCCATATGTCCCA
GCTACTCTTGACGCTGAAGGCAGGAANAATTGCTTGACCCANAAAG

SEQ ID NO: 1287 ACCCAAATAGCTAAGTTTAAAAATTTAAGAAATCCGAGAATTAGTTTAAAAAT
TGTATAAATTCTCCTTTTAACTTTCTAAAAATGTCCATATGCACTCTCATTGTGTTTTAAATCCATTAC
ATTAGAAAAACAGACTGCAGGCCGAGTGCAGTGGCTCATGCCTGTAATCCCAGCAGTTTGGGAGG
CCAAGATGGGAGGATCGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGTCAACATAGTGAGACACC
ATCTCAAAAAAAAAAAAA

SEQ ID NO: 1288 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCCTTCCCCAACAGCAGTTGGAA
TTTTCTTTTGAACACAAAGTAAATTAATGTTTATACTGTTTTTTCACCTGAGTCATGTAAAAGGNGA
CTCCTTTTCACTTTTAAAAAGTTATATTTAATTTTGGGGGCCTTAATTAATAATTAACATTTAACCAT
GTGTTTTTTTTTTTGTAAACAGTCTACATGTCAACAAATGGATAAGGGTTAACAAAGGCCAAATACTG
ACTTCATTTGTGTTTTTAAACACGATTATATGAATTTTCTTTTTTAAATTAATAAAAAATGACATAAAAC
CATTCATATAGGNCCTCTTCTCTCAACTGCTTTGAGATATANCTTTAAATATGGGTAGATCAAGAC
AAGTAATGTTGGTAATCTCTTATCTTGCATAGAAAAGAAAAAATAAAGGAACTTATTTCTTCTCCTA
AGGTCTCANCTAGTTTCTTAAAGTCTTTCTTCANCTCCAATGGAAATTTCTCATAGCACTTNTTAC
AGACTGGCTTCATGTCAAACCTCCACAAAACCTTATTTCTGAAGTGTTAATTTANTGGTGCAGGNAGA
ACAGGGCAAAGCCANTTCCGCNCCANGCCNTTTTTAGAGCCGANACCNCATCCCCTTNTNTAAC
ACGATTGCAGNGGGAAGCCAAACNTTCNCCCAAATAGCNTGGGTNTAGTGNGTNTNANAAATTT

SEQ ID NO: 1289 GGTACCATAAGGAGACACAAGAAGAAAGGTGACACTAAGGCTACAGTGCAC
AGAAAACAGACCAGGTGTGGCTTCGACTGTGCGGACCTGCCCACTAGCCTATGCTACAGATTTGA
AATGTCTTTCACTTTGACATGACACACGGTTTATATTACACAAAATGAATGAAACGACAATGGCTA
AAAATAAATGAGACAGCCTGCACACAAAAGATGATGACTGCTACTTTCTCCCATCAGAAAATT
ACTCAAAAAGGGAGTATTTAAAGGAACTCAAATCAGGAGAACCCGGTAGGCATCAGAGGTTCA

GGGCACCAAGGCCTTANGGCGGGAACACTTTTTCAACCCAAGCCAGGCTTCAGGGGCAAGCCCACC
AACAGACCCCAATTTCCACAGGGGAGGCAGATCTTCTATACCTACAGTGACAGAAAAATACACTAA
AGTGCAGTATAAAATATAAAAAGGTTTGATTCTGAATAGACCAACTGCTAATTTTCCTTAAAAAAA
TTTTTAATTTGGTTGAGTAAAAACCAAATTAGTTCAGTGAATCTCATTTTGTAAGTAAAGAAGTCTT
ATTTTGCAATACGAAAAACTGGAGCTTATGACTGNTTTTGATTCTTCTGTANCACANGATAACC
CAGTATTANTGGGAGAACACTTACAAAANGGGGGCTTTGNGGGNGAGTTCNTTTGCATTAGTGGG
TTTTTAAAAAACAA

SEQ ID NO: 1290 ACACACCCAGGAAATTTGTCATCCACCCTGAGAGTAACAACCTTATTATCATT
GAAACGGACCACAATGCCTACACTGAGGCCACGAAAGCTCAGAGAAAGCAGCAGATGGCAGAGG
AAATGGTGGAAGCAGCAGGGGAGGATGAGCGGGAGCTGGCCGCAGAGATGGCAGCAGCATTCTT
CAATGAAAACTCCCTGAATCCATCTTTGGAGCTCCCAAGGCTGGCAATGGGCAGTGGGCCTCTGT
GATCCGAGTGATGAATCCCATTCAAGGGAACACACTGGACCTTGTCCAGCTGGAACAGAATGAGG
CAGCTTTTAGTGTGGCTGTGTGCAGGTTTTCCAACACTGGTGAAGACTGGTATGTGCTGGTGGGTG
TGGCCAAGGACCTGATACTAAACCCCGATCTGTGGCAGGGGGCTTCGTCTATACTTACAAGCTTG
TGAACAATGGGGAAAAACTGGAGTTTTTGACACAAGACTCCTGTGGAAGAAGTCCCTGCTGCTATT
GNCCCATTCCAAGGGAGGGTGTGATTGGTGTGGGGGAAACTGTTGCGTGTCTATGACCTGGGAA
AAGAANAAGTTACTCCGAAAATGTGANAATAAACCTTATTTGNCAATTATTNTCTTNTGGGATTCC
AAAACATTTGGACATAAGGGGNAATTTGTATTTTGATTGTCCAAAAAAANTTNATTCTGGGGTT

SEQ ID NO: 1291 ACAGGGGCAGTCAGTGGAGGGCGAGTGGTTTTCGGAAAAAAAAAAAAAGAAAA
AAGAAAAAAAAAAGAAAAAAAAAAGATTTTTTTCTTCTCTTAATCGGAATCGTGATGGTGTGGAT
TATTTCAATGGTGGGGTTAATATAGCATGTTATCCTGTCTATCTTTTAAAGATTTCTGTATAANACT
GTTGAGCAGTTTTTAAATAGTGTAGGATAATATAAAAAGCAGATAGATGGCGCTATGTTTGATTCT
CTACAACGAAATTATCACCAGCTTTTTTTTCATTCTTAACTCTTTAAAGGATTCAAACGCAACTCAA
ATCTGTGCTGGACTTTAAAAAAACAATTCAGGACCAAAATTTTTCTCAGTGTGTGTGTTTATTCCTT
ATAGG

SEQ ID NO: 1292 GGTACAAGCTTTTGTCCAAAATGGCACAGTGAGCACAAATGAGTTCCTGTGT
GATAAAGACAAAACCTTCAACAGTGGCACCCACCATAACACCACTGTGCCATCTCCTACTACAAC
ACCTACTCCAAAGGAAAAACCAGAAGCTGGAACCTATTCAAGTTAATAATGGCAATGATACTGTCT
TGCTGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCA
ACCCCAATACAACCTCACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCA
GCACCATTAAGTATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAACCGATTTTATCTGAAGGAAG
TGAACATCAGCATGTATTTGGTTAATGGCTCCGTTTTCAGCATTGCAAATAACAATCTCAGCTACT
GGGATGCCCCCTGGGAAAGTTCTTATATGTGCAACAAAGAGCAAACCTGTTTCAGTGTCTGGAGC
ATTCAGATAAATAACCTTTGATCTAANGGGTCAAGCCTTTCATGTGACACAAGGGAAAGTTTCT
ACANGCCCAA

SEQ ID NO: 1293 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAAAGATATATATATATATAT
TCANAATTAGGCAGCTGGACTCAGTTTAAATGATCCCAATTTTGTGGCAACATCCAAAGCATCGT
AATCAGGAGCCAGTCGAACATATGCCTTCTTNTTCCATCAGGCCGAATCAGGGTGTGACCTTGG
CCACATCAATGTACATACAGCTTCTTACAGCCTGTTAATCTGGNGCTTGTGGCTTTAACATCCAC
AATGAACACAAGTGNGTGTTGNCITCTATCTTCTTCATGGCANACTCAGNGGTGAGCGGAAACTT
GATGATAGCATAGTGGTCAAGCTTGTCTCCTGGGAGCGCTCTCCGAGGATATTTGGGCTGTCT
CCGGAGTCGCANTGTCTTCGGCCGCCGAAGGTGGGTGACGTGCGGATCTTCTTCTTTTGTGGCN
GNGGGACACCTTTCAACACTGCCTTTTGGCCTTTAAACCTTCGCTTTGGCTTCAACTTAGGAGG
GGCANGAGCTTTCTTNTTTNGTTTTNGGNGCCATCTTTTGAAAAGGCCCCNCGTACTTGGCCGNGA
CCA

SEQ ID NO: 1294 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGTATATCCATAGTCACCTTTATT
CTGAATTAACCATTTATCAANAGTGCNCCTGAAAAGAGTANAAAAAATAAAGGAGCCCATCAAA
AAAAAGTTCCCTGGCAAGTGGGAGGGAGGACATGATGTTAGGAGCCCTGTTTGGGGAAGGAAAT
GTTATCCAGGTCATGGATGCCATTTTGTCAATGATTGGAACACTGAAGGTTGGCANATTCAGGAT
GAAGCGTTTNTGGAGCTCCTCCAAACATTTCTAAGGAGTTCACCTGCCCTCTCAGTGANATAGT
CGGTGTGTAGTATCGGTGAGGATACTGAGAGTCAGGAAGGCNCCATAGCCCGTGGCTGCAAAA
GGGGCCTTGGCCAAGGCTGCCAGGTAGTCCATGTAATACAGCCGCTGGCCCTTCATGCTCATCATA
ACCAGCCAGGAGGAGGTTACATGATATGGGGTCCCGACTCCCAAAACAGTCAGCCAGGTTTCGG
CGTGTGAANTTAACNTCTGCCGTGGGAAAAAATTCATNTTCATTTCGCATTNTTATAAAGTTGCC
CTTTTTTTGAATATATTTTTTGAACACTGGGACCTTNGGCCCGGA

SEQ ID NO: 1295 GGTACGCGGGGAAGTCGCTTGTGTATGAACGCAGCGGCGGACCTGTGAGGGG
ATCCGACTTGCCGGCAGAACTTACGCTGCGGGACCCCGGGCACTGTTGCTGCTGCGGGAGGTCAA
TCATGCGAGGCTGTGACAACATGTGTAGCTACTGCATTGTTCTTTCACCCGGGGCAGGGAGAGG
AGTCGGCCTATTGCCTCCATTCTAGAGGAAGTGAAGAAGCTTTCTGAGCAGGGGCTGAAAGAAGT
GACACTTCTTGGTCAGAATGTTAATAGTTTTTCGGGACAATTTCGGAGGTCCAGTTCAACAGTGCAGT
GCCTACCAATCTCAGTCGTGGCTTTACCACCAACTATAAAACCAAGCAAGGAGGACTTCGTTTTGC
TCATCTTCTGGATCAGGTCTNCAGAGTAGATCCTGAAATGAGGATCCGTTTTACCTCTTCCCACCC
CAAGGATTTTCTGATGAGGTTCTGCAGCTGATTCATGANAAANAGATAACATCTGTAAACAGATCC
CCCTGCCANCCCAAATGGAACNATCCCGTGTGTTGAANGCCATTGCNGAAGGGGATATTCAN
AAAAA

SEQ ID NO: 1296 ACGTCATAGAAATAGCAGCTCCCACCTTGTCAATCAATGGTATCAAATTTGGTA
AGAACAATGCCATCAATGAGCCGAGGTGTCTGAGCCATAGAATGGTCAGCCAAGGCTCTGTTGAA
CTTGACCAGCTGGTCCACGGCTTCATTGCCTACTAAGGCTTCTCTACAAACAGCACCAAATCAGG
TGTATTGACAGTAATGAGTTTGCCAGGGCAGTCATCAGAGGGGCATTGTCTTGCATGCGGCCTGC
CGTGTCACCAGCACACGTCAAAGCCTTGTTACGTGCAAAAGCAATGGCTTCCATGGCAATGC
CAGCAGCATCCTTGCCATAGCCCTTTTCAAACAACCTGCACCATGGTGCGGCCACCATGCTTCTCTG
GAGGGTGTAGGGCACTCAAACGCCGGGTGTGTGTACC

SEQ ID NO: 1297 GGTACTTTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTTATTGGTCTCTTNT
ANCAAAGNGGCTCCAGGCCCTTCACGCCTNTCAAACACCACCCATGAGGGTTTAGGAAGGTGCCA
TCATTCTGTGAAGGCCCANAGCTTACCCAAGTCTTGAGCCCAAGTTGAATCACCACCCANAGGG
TTGGGANAGGAAAAGGAAACAGGCAGAGGGGAAAGGCAAGGCTCTGCAGTGAAGGGGACTGAT
ATCAAGGGAATGCTGAGGTCCAGCAGTGTCTCCTGAAGGCATGCTGCATCCTAAGGCTCCTCAGG
ACTGGATGGAGTAGGAAATCTGTGTGTTGANCAAGTTCACATNTATATGGCAACTTTAAGGAGGCG
CTTGATGTCAGGCTCAATGTTGATGGTTGGGAAGGTGCGGCTGTANCGTCGGAAGGGCTCTCCCTC
CGGCCCTATGAGGAACTTNTCAAAGTTCAGGCCACATNTGAGCGGGCCNCAGGGCTCCAAATGAT
GAACTTGGGATCGG

SEQ ID NO: 1298 AATTGCCCCCTTAGGCGTGGTTCGGCGGCCGAGGTACAAAGGCAAAAGGACCA
CAGCACCACTTAGGTGTAGCATGGATTTTAAACTGCAGTCAGTATCAGATCCTGTTTGATAAATAA
GCTGACTGTTCTCTCTTGAGAACCTGTGGCCTCAACCAGCCACCAAGCTGATGTGGCCCAAGTCCA
TCTCTTGGTCTTCTCCTTTGAGGCACAGCCTATTTCTGAGCCAAGGGTTGGGGAAGCCTGTCTAGA
TGTGGGACTCATTGCCCCAAACCAGGGAGAGGAAGAGCTCCACAGGGAGAGCCCAGGCTCTCTT
TGCAGCCTTTCCCAGTTTGGTGTTTAAGCAGTGCCATGTTCCCTTGTGTTGACAACAAGACAGTCTGTA
AAGTATTGCTCTTAAAAACAATTAAGAAAGAACCTTTTCATATTGGCACCATTGCCTTANTCCTCTG
TGGGTGGTCTTCAGCCAGCATTTCTGGTGGGAGTGACTGGCATTAAACAAGACTGGAAATCGGGGG
TCAAAGTAAATATCTTTGTTTTGCTTTTCAATCCAAAAGTAATGAACCAGCTTGCCAATTACATNCT
CCCAACAACACTTTTGGTCTGNGGACTGCTGGGTGAATATTCANAAAGGGAAGTAAGTNTTCAGG
GGGTAAACANGNCTNCCAANATTTTGAATGGTTCCAAACCAATTAATNCACATTGCCAATTTCA
AAATTAACAACANNCCCTTGCTTNGATTTTACCC

SEQ ID NO: 1299 GGTACAATGTGGGGCAGGCACCAGACTGGGCAGGGAAAGGCCTCGGATACC
ACCATCATAGCAGAGACCAGACGCTCATCCTTGTTTGAGACATGAAGTCACAGGAACTGAGATG
GGTTCCCAACATAACCAACTGGGAGGGCAAAGGTGGGGAAGGGCAGAGCTAAAAATTAACA
AGGTGCCCAAGGTAAAGGGCAAGCCCTTGTCAGCCTGGGATACTGTCTCCTACTCCCAACCTTTGG
GCCAACAGAGGAACCAGTTGAAAAGGAGGGCCAAAGACATTGCAGTAAGTAAGCAACAGGACA
ATGAACTCCATGTTGCCAGATCCCAGTGAAGTGAACGTGCAGTCATGCCATAACCGACACAC
ATCCAGTCCATGTGGGTCAGTCCTTCATCACCTCCCTGCTTCTGACAACAGCAGACTCCACCAT
TCCATTATCATTACAGCCCAACCCAAACAGTCAAGTGGCTTGAAGAAAGANAAATCANGTATAC
TCTATGTCCACATATACCTTNCTGCCACAAGGCTTCACCAACTGGCANGATTCCCCCANCCCCCA
ACTTCTNCTNATTCCTTTGTTCCCAAGCNGGGTCAATTGGGAGANTTGACCAAAAATANAATGGCT
TNCNGAAAGGGTATTCCAAAATGGGGGAGAACTCCACCAGACCTTAAGGGAGAAAGAAATGGCCT
TNTT

SEQ ID NO: 1300 ACACTCCAGATATAACTGGGACTTCTGTGTAGATCTGAACGAGTGCAACCA
GGCTCCCAAACCTGCAATTTTATCTGCAAAAACACAGAAGGGAGTTACCAAGTGTTCATGCCCGA
AAGGCTACATTCTGCAAGAGGATGGAAGGAGCTGCAAAGATCTTGATGAGTGTGCAACCAAGCAA
CACAACCTGCAGTTCTTATGTGTAAACACCATTTGGCGGCTTCACATGCAAAATGTCCTCCCGGATTT
ACCAACACCACATACGTCTGATTGATAACAATGAATGCACCTCTGACATCAATCTGTGCGGGTCT
AAGGGCATTTGCCAAGAACAACCTCCTGGAAGCTTACCTGTGAATGCCAGCGGGATTCTCACTTG
ATCAGACCGGCTCCAGCTGTGAAGACGTGGACGAGTGTGAGGGTAACCACCGCTGCCAGCATGGC

TGCCANAACATCATTGGGGGCTACAGGTGCAGCTGCCCCCAAGGCTACCTTCAGCACTACCAAGTG
GAACCAAGTGTGTTGATGAAAACGAATGCCTCACCGCTCACATATGCGGAGGAGCCTCCTGTCACA
ACACCCTGGGGAGCTACAAGGTGCATTGTGTNCCCCNGCTTCAAATATGAACAGTTCAGTGGA
AGGATGCCAANANATCAATGAATGGGGGTTNTGACCAAGNCCCCTGCANCTTTTGGNTGTTCCA
ATACCG

SEQ ID NO: 1301 ACGCGGGGCTCTTTCCCTGCCGCGCCGAGCCGCGCGGAGGCGGAGGCTTGG
GTGCGTTCAAAATTTCAACTTTAACCCGTAAACCCACCGCCTTGGCCGAAGAAAGGCTTNNCTGTT
GGAGGT

SEQ ID NO: 1302 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGAAAATCAATGTTTTCTTTA
ATGCTGAGAATTTTTGTTAATATTTCTGACATTTCTATAAAACATCTTTGTTGACATTCTACAAATG
ATAGCATCCAATAATGTCCCAATACTTTCTTCTGTGAAGAGAGTTTATATATCTTTTGACTTCTG
TAATATTCTATTATTTTCAGGAAGATTTTTCANANAAACCTGATGACCTTCTACTTGAGATATTAGGT
ATTCTTGATTTATTTGTTTTTCTCCCTCTTCAATGTAAACAATTAGAATTGAAGCGTCATTTGCTGA
NATACCAAATTTTTTCAAAGCCTCTGAAATATTGTTATTTGGGGAAAGGTTGAAAATAATTTCAAGT
ANATAGAGTTCTTGTCTTCATTTTTCCCANTTTGTANAGGTGAACTGCTTTGTTTGCTGCCACAAGT
ATCTGAAATGGATCAACAATCCTGTAGGATTTATCAGTGATCCATCCGATGGTGCCNTCCATGGCC
TTTCTTCTCAAGTCTCCCGCATTTTACATCTTTAAANAACAGAAAGGTTCCCTGCTTTCNGGGAA
AAAAGGCCAGCTGATTGTGTTNACCGCATTTACCANANTANCCANGGATTTTCTTCGGGGCCCC
AAGTGCGTCCCCCNGNTTCTTGCCCCGGGCGGGCGCTTGAANGGGGNAAATCCAA

SEQ ID NO: 1303 GGTACGGGAGTTTCTTGTTAAATCCAGAATCAGGATACAATGTCTCTTTGCTA
TATGACCTTGAAAATCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGA
AATTGTTTTGCCTCTGTCTTTGAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAA
CAGGGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCA
CAGTAGTCTTCAGCACAGTGTTTAAGGATGACGACGATGTGGTCATTGGAAAGGTGTTTCATGCAN
GAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACAGGTCTCTTTAGCCACAGGGAACC
TCCTCTGGGGCTGAAAGACACAGACGCCGCTGTGGGTGACAACATTGGCTACATTACCTTTGTGCT
GTTCCCTCGTCCCAATGCCCAGTGCTCGAGACAACACCATCAAACCTGATCCACACCGTNCNG
GGACTACCCTGCCCTACCACATNAAGGGCTCTANGGGCCTATNTTCACACACGTTATGC

SEQ ID NO: 1304 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
GTATCTTACAGGAGTATTCTTATCCATCCCGTGGAAAAGGTTGCTTAACAACCTGCAGTCTCAGAGA
CGGGCGTTACCTTCGCGAAATTTGACCAGCTTTTCACATAGGCTTTCAATCAAAGCTTCTTGCTTG
TCTGGTTCCAGGATCAAGAGTAGGGATAACCACTGTTTCATCACACTTTCAACATCTTTATCATCC
TCCTTCAGACACACATCACAGGCTTCAATAATTTGAGCTAAATCAACATGAAGTCCACCTTCCGAG
TTCTCTTCTGAAATCTCAGCTCCTTTAGATTTAGATAAGCACGAAGCTCAGCAGCCTGATCTTCTT
CACTGATGTCGATGAAGGCCGGGACGCTCATGGTGACAGGCCCGGCACAAGCGGACACTCCACTC
GCAAGACCACGCCGACCGGAAAANGGAAGTCCCCCGCGTACC

SEQ ID NO: 1305 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTNTTAATGATGTTTTTAATTGACAAT
AATTGTAGATATTCATCGGATACNCAGTGATGTTTTGATACATGGGATGTCTAGTGATCAAATCAG
GGTAATGAGCATATCATCATCTCAAGCGTTTATTATGTGTGTTGAGAATGTTCAATATCCTCCTTCT
TGCTGCTTGAAACTATATAATATATGGTAAGGAGTTTGTTTTTCCGTCGTCATTTGTAACCGTTAAC
ATTAGGATCTGTGAGCNGNGTNTCTAGTTATTCTGCTTTATTTTCTCTGCTCCTGACCGCCGTTG
GATAGCTGANATTTCTCCGGATGGGCANAAGCTCCCCTGCCTTATGGCTTCCGNAGCTGAACACT
GGGTCTTTCACTGAGCNGGATNAAATGANTGTGGGTNGTTGCTTGGA

SEQ ID NO: 1306 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGANACTGTTCTTTTATTCTGAGTCA
ATAAGTAACATGTGATACAAACTCAAGATTTTATTAATAATCATTTGTAAGTTAAATTANCATATCT
CGNGGTGAAGGAAGACTTTTAATAAAGCAAAATAATGAGTTAGGNGAATCAACAGAAAGAGTG
AAAAGNGTTAACAGTGACATTTAAATGGTTNCATGATTTTAATTATTCTTTTGATAATAAGCAACC
TTGTGATATCTATTCAANAAAAGCCAGAGCCCACTATGGAATTCGCAGTTGAATAAAAGCTTTGTT
CCCTGCTTTTGTAATGTTAAAGAAACAAATGGAAATGGTTTAAAGACCTTATAACAATCTCCAC
CTAGCAAAAAGAAATCTAAAAGGTAAGGNGGGAAGCATTAGAAAGAGNGTGAAAAGAAAAATNAA
AAAGGCCTNACACGCANCATTGGGTTTTATTGATA

SEQ ID NO: 1307 GGTACTTGCCCACTTTTCTCTTGTGGGCTGTTCTTAGAATCCATTATGTTCT
GTGGGTGACATCAGCCTGCTACTGCGGGAAGAAACAGAATTTTATGGTGCCCAAGATAAAATCGA
CTATGATGATGCAGAATGAAGACCTGGAGAGGAGTCAGAGATTGCAGGGGATAAAAAGAGAGAA
ATCAGAGATGCTCCCAACACAGAGAAAACCTTCAGAAGCAGCAGGAAGGACAGAGTAAATGGA

GAACAAAACTCAAGTCAAAATAGTCAATGGAAATAAACAGTTTTGAATTCCAGTTATAATTTGG
 AAAAGAAGCAAACGTTTATTTTAAATTAAGAAAAAGTCGCTTATAATTTCTGAAGTTTAGAAA
 AGTGAAAAATAGTTAAACCTCCTGTTGTTAGCTAAGAAGTGTCTATTATTATAAGTTTGTGCTGG
 AGAGAACATAAAAAATCTCTATCTATTGCTATTTTTTTTTTTTTTTTGCATAAGGGGATAGATAAAAG
 AGTGGTTTATTTTATTTAGCCTTGGCCTGTAAAGTAAGATTTATTGAACCAAAGGGCCATCNGGA
 AATGATAAGAATTTTTCCCTAATTTCTAATNTTTAAGCTAAACCTTGATTGATTTCTNTTCANG
 CTAGTGCCCCATATTANNAGCAACAGTCANNCTTTTCATTTTTTCTTTACCTGGGANCCNCTGGCTT
 AAATCC

SEQ ID NO: 1308 ACTAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCCTCACTG
 GAGCAGATGGCCAACTAAAACCTGCATTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATTC
 TTCTTTCTTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGG
 TTATAAGCCGAAGGCATATTTGAGGGATTTTATGTATGTGTCTCAGGATCCAAAAGATCAACTATT
 ACTTGGACCAACATATGCTACTCCAAAAGTTCTAGAAAAGGCAGGATTGACCATGAATGATATTG
 ATGCTTTTGAATTTTCATGAAGCTTTCTCGGGTCAGATTTTGGCAAATTTTAAAGCCATGGATTCTGA
 TTGGTTTGCAGAAAACCTACATGGGTAGAAAACCAAGGTTGGATTGCCTCCTTTGGAGAAGTTTA
 ATAAGTGGGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTGCAGGTTGGTCATGG
 CTGCTGCCAACAGATTACGGAAAGAANGAGGCCAGTATNGCTTAAATGGCTGCGTGTGCAACCTG
 GAAGGTCAGGGCCATGCTATGATANGTGAAGCTTATNCAAATAATTAGAATCCNANAAGAAAAG
 TGACCTGAAGTTTCTGTGCAACACTCACACTAAGGCAATGCCTTTCATNCCTTACTAAATGACATT
 GGT

SEQ ID NO: 1309 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTINGCTGGGGTATTCATTTCTGCATGTATAG
 CTTTATTAATTGCTAATGAAAATTANAACCTTTCTGGGATCTTCTGACAAGATTTTAAAAAATCTT
 AAAATGCCTTTTCTTCAGTGAAGCCATCTTGGAGTTAGTCACTCTCACCTTATCTGTCATCTT
 GACTTCAAACCTGATATTCCTCTTCTTTTGGTCCANACCCCTCAAATTTTAAAAGTAGCTTCAAGTTAA
 GGAAAGGTCAATTTTCCACAGTTCAGTTCTCTGAAAACTTCCATCTCCCACTGAAAGTCACAGTC
 CAGGAGTGAAGTAATCACATGCTAGAACATCAGGGCCAATTGGAAAAGTCATTATGAACACTTGCA
 TTGGTGCATCTTATTTATCACCACAAGCCTGAAAATGCAATGTCCTGAAAAAGGTGACCTCTCTGT
 GCACACCGTAATTTTAAAAAGGAGAGGGTAATATGAAGGGGACTGAGGCTTGATCACCAAAAAT
 CAGCNCATGGAAACAAACAATAATGAATAATGAGCNCATANAAATTCAAATTNCCAGATGTTTCAAA
 NAAGATGGGGGNGCCAGNTTTTATTCCGTTTGGACCCNCATTTACAAAAAACCTNTTTTTTAA
 AAATAAAAAANGGTTGGGGGGGAAAGGAAAAAAATTTAAANGAATTTTCTTAACCTGTTG

SEQ ID NO: 1310 GGTACGAAAACAGAACCAATCTAAAAATGGCTGATGTTACTTTAGGAGCCTG
 AAAAAAACAGGAGATCCTTGAAGACCCAGCCACCCCTTCTAGAATGTTCAATAAGGGCACCTTTC
 CAAAGCTACTAAGCAGGCACCTTGGCATTTCAGGAGTTTGTCTTATGGTTGCATAAAAGTATCCCTT
 TCACCCAGACCTGACACCCCTTATGGTTCAAAGTTAAGAACGGGAAGAATGGGTGGCAAGGTGGC
 TCCTGGAAGAGCTCACCCAGCACAGCTGCCCTGAGCTCGGGGCCTTGGTTTCTGTCCCTGGGGATA
 TTTATATTTAATAAATTTTATATAAATACACAGAGAAATAGAAAATATAAATCTGAGGGGTTGG
 GGAAGAAACGTGAGGGACTCAGCAGGAAGCCAGAGCTGGAGAGGTCCATTACAGGCCAACTTGAC
 CTCCTCCTTGACCCCTTTGGCTTCTGGCTTCTTCTCCTCTGGTTTCTCCTCTTCGGNGACTTCTTCT
 TCTCCTCTGGGTCTTCTCTTTTTTCATNCTCTGTTTTCAGTCTCTTGGCTTTTTTTCAGTTGGGAA
 GANTTTTTTGCGGGCCCCNTTTNCCTTCTTTTCAGAAATCGGGAGAACTNTTTCCTCACANGCCA
 ATTNCNTTTGTCAAAAAGGANCCAGAATCGANAATGCNCCTTGTGANGGGTCGNTTTTCGTCTNTCA
 TN

SEQ ID NO: 1311 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAAAGNGTAAATTTATTTAATACCA
 AATGTTTCCTAAGTTTACTTTTGCACAATGCACANACACTTTTGGGACAATGTATGGTTAAAAAC
 TAATATTCTACCAACAGCTCCATGCTGCTCTANATCATCCTGAAGGAAAAAGTAATGCAAAGGAT
 GCTGGGTCTCCAAGTCCCAGGACTGGCCGATAGCCTCTCCAGTGGATAGCAGGTCTTAATCTNT
 TCTTCGAGCANATTCTCTGATTTTCAGCTGGGTCTTCTGATGCTCTCCAAGTTCAGTTGTTGATATT
 TTCTTTTAAAAAAGCCACACTTGAACAGGATGACCAGAATCACGATCAACACCAGAAGTCCACCA
 ACGCTGCCTTTAATGATGATAGGCAAAGAATGGTACC

SEQ ID NO: 1312 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCATTTTANACTCCCAT
 TAACTTGTNTAGCANANAAAATAAAATCTTAAACTGTATGCTAATAGTTATCCAAAATTTATGTTAA
 ATGACTTTGGTTTATGGATAGAACTTTAACATTAATGACNCTGAAAATACTCAGGCCCATATTG
 GCCTTATNTNTCAACANACTTTAATATTTTCTCANAAATTAGATGAGGGCATNTTATTCAAAT
 AAAATTCTCAAATAATACAGTNAATAGAATTTCTTAAAAAATACCATTTATGACTTNTCTNTCTAT
 ATATAACATCTCAAGCACTANAATTAACAAATGCNGAATTAATGT

SEQ ID NO: 1313 ACAAAGTAATGACCATAATACCTTGTCTAAATCAGTAGCAGGGCTTCATGGC
TAGGAAACTTTTTTAAACAGTAAATGTCATTAGGATAGATCACTCTCTACCAACATTAAATGTG
GCAGAAATTAACCAAAAAAAAAAAAAAAAAANGAAAAAAAAAGATTTACACGCTAGATATAGCAGTAA
CAGAAAATTACAAGGCAGAGAACACAAAAGAATCAAGACAACGCTATAGGTTCAACAGTATTCC
ATGAGGGCTAGAAAACCGGTTAACTTTGAAAGCCCTAGCAAAATATCACTCTTGTATTATAAATCACT
TATTTATCATATGACCACACGTTGAATCCTTGTCTTTCCACATACTGAAGAATCCTACATTACGCCT
TTAAGCATTCTGCATTTCTTTGCCAATCTTGTAGCTGAGTATCTTGTTCAGTCGATTTTGGTGGC
GTAAGTGAAGCTGCCGGCGCAAGGCCTTGAATGTGGTATCTGACATTGTTTGATAGTTTTCCTA
ATTGCTGGCTGATACTCATTTTCTGGATTCTCTATGATTTTAAATAAACTCCTTGGCAGTTTGGGGC
TTTCATTGCAAAACAGTTAGTGAATCCTGTACCTTNGGCCGCGAANCA

SEQ ID NO: 1314 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNGGTCAGGGTTTATTAAGTANA
TTCAGTCTTATATATGATATACAGATTCAAAGGAAAAGGATTCCACATACTTATGAAATAAGTGC
ATTTAGCAAGTAATACCATGGANATAACAGCTCGATTAAACAGCTCATTGGTCTTTTGTAAAGTGAG
GGANANAGGGAGTCGGCCTGTGCTAGTCATTCCACAAACAAAACAGAATTTAGTCCATNACGTA
GANAANACACATTCTAAGAATTAATAATTAAGCCACATTTACTGGNAAAACCTCACTATNTAGAA
CACAAATAATTTTATAGAGAGCATTGAGGAGGAAGTCTCACCTGCTTANAANAGCCCCGTAA
GTTGCATAGGNGCATATNTGTAAAAATATAATTTAGAGGTGAAGCCATTAATAAGAGTCCCTTTA
AAAGTTGGNGCCATCCACTTGTTCCTTAAGNCNTACTATCTGGA

SEQ ID NO: 1315 ACGCGGGATTTTCGCCATGGATGAGGATGGGGACGAGAGCATTACAAAACCTGA
AAGAAAAAGCGAAGAACGGAAGGGTCGCGGCTTTGGCTCCGAAGAGGGGTCCCGAGCGCGGAT
GCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGACCACAACGCTCTGTTGAAG
GCTGGATTCTCTTTGTAAGTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACAGCAAAATTC
GCAGAATATGGGGAAATTA AAAACATTCACTCAACCTCGACAGGCGAACAGGATATCTGAAGGG
GTATACTCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGACTCAATGGCC
AGGATTTGATGGGACAGCCCATCAGCGTTGACTGGTGTCTTTGTTTCGGGGTCCACCAAAAGGCAAG
AGGAGAGGTGGCCGAAGACGCACCAAAAAGTCCAGACCGGAGACGTCGCTTGACAGGTCTCTG
TTGTCCAGGTGTTCTCTTCAAGATTNCATTTTGACCATGCACCTTTGGACAAATANGACTGGGGT
GGAACTTGCTGGGTATATTTAATCCTTTACCGGATATGCCTAGTATTTGAGTTGCNAAATAAAT
GTTCCANTTTTGTTTTAATAAAAA

SEQ ID NO: 1316 GGTACTGCCAGATTCTGTCTAAATGTCTGTCATGTCCAGATTTACTTTGCTTCTG
TTACTGCCAGAGTTACTAGAGATATCATAATAGGATAAGAAGACCCTCATATGACCTGCACAGCT
CATTTTCCTTCTGAAAGAACTACTACCTAGGAGAATCTAAGCTATAGCAGGGATGATTTATGCAA
ATTTGAACTAGCTTCTTTGTTTCACAATTCAGTTCCTCCCAACCAACCAGTCTTCACTTCAAGAGGGC
CACACTGCAACCTCAGCTTAACATGAATAACAAAGACTGGCTCAGGAGCAGGGCTTGCCAGGCA
TGGTGGATCACCGGAGGTGAGTATGTTCAAGACCAAGCCTGGCCAACATGGTGAAACCCACCTCT
ACTAAAAATTGTATATCTTTGTGTCTTCTGTTTATGTGTGCCAAGGGAGTATTTTACAAAG
TTCAAAACAGCCCAATAATCANAGATGGGACCAAAACAGTGCCTATCCAGTCTTTATGCAAAATGAA
ATGCTGCAAAGGGAAGCAGAATCTGTATATGTTGGTAACTACCCACCAAGAACACATGGGGTAG
CAGGGAAGAAGTAAAAAAGAAGAAGGGAGAATACTGGGAAGATAATGCACAAATNGAAAGG
GACTTNTTTAAGGATTAACCTAGCCCCTTAAGGGATTAACANTTTAAGGATTAATAGCCAA

SEQ ID NO: 1317 ACTGCACCAAGCCTGGGCCTTGGCCTTGAGCATTCCAAAGCCCACGGTCTC
CTTGGCATACATACACAGCAGAAGGTTGGCCACTCGGGTGATGGCTACACGGCCCTCCATGCAAT
CCATGAGGATGAATTTGAGATTGTCTTCAATTAACGCTTGGTTCCCGTTCCGGTCTAGGCGGGCC
AGATGTTACTGGCTATGGCAGCGGTGACCCGGGCGTCACTGTCCCGTAACCAGAGTAGGCCAGC
AGTGATCCCTCGTTATTCAGCAGCAGGGTGCTCTGGACGCCTCCAGTGTGGCTTGCTTANCAAC
TGGGTCAAAGCCTTGGGGCGCAGCATGCCTACGGTTCCTAACCTGGGCTTTTGCACCCAGATCTC
CGAGGTGCCTCCCGCCCCGCGTACC

SEQ ID NO: 1318 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGAGCANATTGGGTAATAAAATGT
NTNTTGANAAATAANACGGCCTTTTGACCTTTTAGGGTCTAGGGCTATAAAGTGTCTCAGGGTTGCT
GCCGAACGANCCATGAAGTGGGCTGGGTTTTATNTTTGATGAAAAANANCCTAAACNCTTNTGA
TTTGGGATAAANAAAAAGGAGCATTAACTTGACTATGTCTTANCTCCAGCCACTTTTAAANAG
TAAATTGCTGGGAGGTGGGGAGGGTANTCACGGAACGAACTGTAAGCCGAGACAGGTGTG
AGGAGGGGAGGTGATAAAAAGATTACAGGGTGGAGGAGTGGANCTGAGGAAAAAATTTGGGACCT
ANCTTGGCNTGGAAAGGAGGGGANAGGTCAAATGGGTTTTGTA AAAAAGGAAGATTANACACACT
CCCAACGCCTGGGTTGGGACTGAGGGGACAGGTGGGAGGGAAAAAAGGAANATTGGGACNAG
TTGCACTGGGCACANANACTAGGAAGGGACCGGATGTGTNAAAAAATGCCTTGGACATTAAGCCC
CTCAAACCATTTTCCCATTTTTTGACAAAAANTATTTANGGTCTTTGTAGGGATGGGANAAATNN

AAAAGGGCCNTTTTTTGCCCNNTTIAAANCCAATTGGCAAANTTTNTTTTTGGGGCCAAACCCG

SEQ ID NO: 1319 GGTACGCGGGGAGGAGTGAGAGAGCTGCTGGATATGCGGAGGGAGCTGGGCG
GGTCGGCTTCCGAATGGAAGAGGTCTGTGAGAAGTTAACCTGGTGATACCGATCCGAAGAGCCTA
TCAAGTGAAGCCCCCTGAAATACGGAGAATAAGAATCTTAGAGGTTGTTTACGCAGAAGTCTTGGA
GTGCATTTTCAGTGGTTAAGGTGAAAAATGACTACTAAAAATTTAGAAACCAAAGTCACCGTTA
CTTCATCCCCAATCCGAGGAGCAGGAGATGGAATGGAACTGAGGAACCACCTAAATCTGTTGAA
GTTACCTCCGGAGTCCAATCTAGAAAGCATCATAGTCTTCAGAGTCCATGGAAGAAAGCAGTTCC
ATCAGAGAGCCCAGGAGTTCTTCAGCTAGGGAAAAATGCTCACTGAAAAAGCAATGGAAGTTAAAG
CTGTAAGAATATTANTTCCCAAAGCTGCTATAACTCATGATATCCCCAACAAAAATACAAAAAG
TTAAGTTCTCTGGGACATCATAAAGGANAATTTCTTGGTCCANTTCAGAAGGGAGTTATNGAANC
CTTATTANGGAACCTCAGAAGTTAAAGAAATGTNTTGGAAAAANCNTCAAANAATTCTNAAAG
AAAGTTACTACCGGAACAAAAAANGTT

SEQ ID NO: 1320 GGTACTGACAAAGTCCTGAAACTACAATGAGAGGAAACACATTGCCCTACTT
CGGGATAAGTCATGACCGAGACTCAATTTAGAGACGCTCTATGAACAGAGGTGCTTGAAGCCNC
AGTGGCAGAANGGAAAGATGGGGAAGTGTGCCNAAAAGCCTCCAGGCATGNCAGACAGTCCCTG
ACCAANCNCATGTAACANGCCCTTTGGGTCTNTGCTTCTCACTGNAANATGATGAAGCCTANATCT
GATT

SEQ ID NO: 1321 AATTCGCCCTTAGCGNGGTGCGNGGCGGAGGTACNGCGGGGCTCACTCTGCGC
TTCACCATGGNTNTCATTGCCAAGTCCTTCTATGACCTCAGTGCCATCANCTGGATGGGGAGAAG
TTAAATTTCAATACGTTCCGGGGCAGGGCCGNGCTGATTGAGAATGTGGCTTCCCTCTGAGGCACA
ACCACCCGGGACTTCACCCAGCTNAACNANCTGCAATGCCGTTTNCANGCGCCTGGNGGNACT
TGGCTTNCCTTGCAACCAANTTGGACATCAGGANAANTGTCAGAATTGAGGAAATCCTGAACANC
CTCAA

SEQ ID NO: 1322 ACGCGGGTCCTTGTCCAGTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTC
TCCTCTCTCTCTTCTTGTGTTGAACATGGTGCGGACTAAAGCAGACAGTGTTCCAGGCACTTACAG
AAAAGTGGTGGCTGCTCGAGCCCCAGAAAGGTGCTTGGTTCTTCCACCTTGCCACTAATTCGAC
ATCAGTTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCGTTTGCCTGCGCCCAA
CTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGGTTGTCCCCTAAAGATTCTGAAAAAGAG
AATCAGATTCTGAAGAGGCAGGAAGCAGTGGCTTANGAAAAGCAAAGAGAAAAGCATGTCTCT
TGCAACCTGATCACACAAATGATGAAAAAGAATAGAATTTCTCATTCATCTTTGAATAACGTCTC
CTTGTGTTACCTGATTCTAGAATGTAAATTTACATAAATGTGTTTGTCCAATTAGCTTTGGTTG
AACANGCATTAAATTAATAAATTTANGTTTAAATTTAGATGTTCAAAAGTAGTTGTGAAATTTGA
GAATTTGTAAAGAACTAATTANTGGTAACCTTANCTTTAGTATTCAATATAATGCAATNGGTTTNG
GTTTCTTTTACCAAAA

SEQ ID NO: 1323 ACCAAAAAGAAAAAGAAAAAGGAAAGGTTTCTACTGCTGTATTATCTATAACT
GCCAAGGCTAAAAAGAAGGAAAAAGAAAAAGGAGGAGGAGAAAAATGGAAGTGGAT
GAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGCCAAACTTCCAGTTATTGG
ATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCTTAACCATGCCGAGACCTGTAGATAC
CAGCCTTTCAAACCACTCTCTATTGGAGGCATCATCATTCTGAAGGATACCAGTGAAGACATTGAG
GAGCTGGTGGAACTGTGGCAGCACATGGCCCAAAAATCGAGGAGGAGGAACAAGAGCCAGAAC
CCCAGAACCATTGAGTATATTTGATGATTAAGGGCCAAAGGATCTCCTTGCTTATCTGAAGAAN
ATTGTCCAGCTCATATTGGGAATGCTTTGAGGGAAATTCATGCCGAGACCTGCTTTCAATGCAT
GTTTTCGTTGNCCTCT

SEQ ID NO: 1324 GGTACACAGTATTTTTTATATCTATGTTTTCTGTTCTCTGGCGCAAGATATTC
TGCACCTGGGTGCTTTCAGGCCTTGACCAAATAGCATGAATAGTAGGAAATGAGAACTTTCCCTCT
GTCAGATCTTCACAAAAACTTTTGTGTTTCACTACATTCTTTGGAGTGATAGCATAATCATCCC
TAATTTGGAAAAAGAGCCCAAGTGATTAAGTAGCGGTTTTAAATCTTCTTTGTAATCAGAGAAC
ACTGCATGAGACCTACTGCTAATCCAAACAGTCCACCTGTTTTCTGCAGCACCATAGCTTTATATT
CTTCTTCAGTGGGACAAGTGTAATTATCCCTCCAGTAAATATCTAGGCCTTGTCCTGATGGAGTT
CCAAAAGCTGGCGGGTAAAAAGCTTCACTGCATCTTGGGTGATCAAGGGGTTAAGACTTTCTCCA
AGCCAAGGAAATACACCGTAATTTGGCAGAAATTGATGGACAGATNGGATTCCATAAGAATGCTG
GNGGGCCACTGGAAANCCACNTCGGAAGTTTTTTGAGTTG

SEQ ID NO: 1325 ACGCGGGGGGCGAGCAGTGGACCTATGAGCAGAGGAAAAATCGTGGAGTTTAC
CTGCCACACAGCCTTCTTCGTGAGTATCGTGGTGGTGCAGTGGGCGGACTTGGTCATCTGTAAGAC
CAGGAGGAATTCGGTCTTCCAGCAGGGGATGAAGAACAAGATCTTGATATTTGGCCTCTTTGAAG

AGACAGCCCTGGCTGCTTTCTTTCTACTGCCCTGGAATGGGTGTTGCTCTTAGGATGTATCCCCCT
 CAAACCTACCTGGTGGTCTGTGCCTCCCCCTACTCTTCTCATCTTCGTATATGACGAAGTCAGA
 AAACCTCATCATCAGGCGACCGCCCTGNCGGCTGGGTGGAGAAGGAAACCTACTATTANCCCCCGG
 TCCTGCACGCCCCGTGGAGCATCANGCCACACACTCTGCATTCGACACCCACCCCTCTTNTGTAC
 CTTGGGCCGCGANACGCTTNAGGCGAAATTCCAACACACTTGGCNGGNCGNTTACTTANTGGAT
 CCCANCTCGGA

SEQ ID NO: 1326 GGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGTCC
 TGTATCTGFAAACACTTTTTGTTCTTAGTCTTTTTCTTGTAATAATTGATGTTCTTTAAATCGTTAAT
 GTATAACAGGGCTTATGTTTCAGTTTGTTCCTGTTTAAACAGAAAATAAAAGGAGTGTA
 AGTCTCTTTCTCATTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAGAAGAAACATTC
 AGTAGAACATTTTATTGCCTAGTTGACAACTTGCTGTAATGCTGGTGGTTCCTATCCCTTTGACAC
 TACACAATTTTCTAATATGTGTTAATGCTATGTGACAAAACGCCCTGATTCCTAGTGCCAAAGGTT
 CAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCTCTTTTTTTTTTTATGGTGCTTGAANTA
 AAACAGCCCCTCTGCAAGTCCATCTATGTTGCTTAGGCATTCTATCTTTTGCTCAAATTGTGN
 AAGGATGGNGATTGTTTCATGGGTTTTGNATTTGAGTCTAAANGCACGTTCTAACANTGATAGA
 GGCAATGCATTTANTTGTGTTGCC

SEQ ID NO: 1327 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTCAGCAAAATAATTTTATTT
 CCTAACATATGGTAACATATACATCCAATATGTGCTCCCTTGACATNTATTACGAGTGACTTC
 CAAATGACAACCTGCTTTGATATTTAAGCATGTGCTAAAAGTTATCTTAGTTGANATATGAAAAATG
 CTTTANATGGATAACATTCTGAGTATATTGGATTAGTCACAGCANAATTTACTTTAGTTANATGAG
 TTCTACAAATTTAAAGCTTTGAAAAGCTACTACTTTTACTTCTAATACATCCAGATGAACACGATG
 TAGCAATATCAGCTTGTATTCCANAGAAATCTCATTAGTTTTCTGGNGATGGAACCACTTATCCA
 CGTTTGTGTTGGT

SEQ ID NO: 1328 ACCAGCACACCGGCGCCGCTCTGGACTGCGCCTTCTACGATCCAACGCATGC
 CTGGAGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTTG
 TTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATGTGATGGTCACTG
 GAAGTTGGGATCAGACAGTTAACTGTGGGATCCAGAACTCCTTGTAATGCTGGGACCTTCTCTC
 AGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGAGACCGGCTGATTGTGGGAACAGCAGGCCGC
 AGAGTGTGGTGTGGGACTTACGGAACATGGGTTACGTGCAGCAGCCGCANGGAGTCCAGCCTGA
 AATACCAGACTCGCTGCATACGAGCGTTTCCAAACAAGCAGGGTTATGTATTAAGCTCTATTGAAG
 GCCGAGTGGCAGTTTGAGTATTTTGACCCAAGCCCTGAGGTACC

SEQ ID NO: 1329 ACTGGCCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCC
 TCCATCTCCAACAAGAGAATAGTAGGCTGCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTT
 TTGGCTGCACAAAGGCGAGGCCAGCGATGCCCCGCTGTGGAGCCCATTAAGCTGGTGCCCC
 AGCAGCTGGCACACTGAGCACCTGCACTAAATTACTCAAAATGTGCTG

SEQ ID NO: 1330 GGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATGACCAGGACC
 CTTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATAT
 AAGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCCAAGGCCCCAA
 ACAATGAACATTCTGGAGGGGATAGAAGCACCCAGCAGCAGTGGGGGCCATGGAGGACAAA
 TCTGCTGAGCACAAAAGAACTCAATATTCCTGCTATTGCTGTAAACTGAGTATGAAAGAAGGTGA
 CCCAGCCATCTATGCCGAAAGGGCTGGCTATGATAAACTGTGGCACCCAGCTTGTGTTGTCTGCAG
 CACCTGCCATGAACTCCTGGTTGACATGATTTATTTTTGGAAGAATGAGAAGCTATACTGTGGCAG
 ACATTACTGTGACAGCGAGAAACCCGATGTGCTGGCTGTGACGAGCTGATATTCAGCAATGAGT
 ATACCCAGCANAAAACCAGAATTTGGCACCTGAAACACTTCTGCTGCCTTGACTGTGATAGCATTT
 CTAGCTGGGGAGATATACCTGATGGTCAATGACAAGCCCCNGTGCAAACCCTTGCTNTTTGAAN
 AATCACCTTGGGGTGTGTCAANGGATGCCCCCAATGCCCTCGANCCCANAAANTGCAGCGGGT
 NGACCTATACAA

SEQ ID NO: 1331 GGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCA
 CACCACAGGGAGAAAACCTGGTTGTCCTGGATGTTTGAAAAGTTGGTCTGTTGTCATGGTGTGTTACT
 TCATCCTATCTATCATTAACCTCCATGGCACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACT
 CAGAGGAGAAAACCTAAATAAGTAGAGAAAGTTTAAACTGCAGAAATTGGAGTGGATGGGTTCTG
 CCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAAATCCCTTTTCCAACCTGTATCAATTTTAC
 AACTTTTTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCTTCTGTGCTAAGG
 TAAGGNATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTANGGTGGAATGTGATGTTCAACAAC
 AAACCTTGCAACAACTGGCCTTCTGTTTGTACTTTCAAAAANGGCCACATGATACAAATTAGAGAA
 TTCCACCGCCCCAAAAAAGTTTCTAANTATGTTTAAATATGTCAAAGCTTTTAAAGCTTTGTC

TAATCTGGAAGTAACNAAGTTCGTAGGTCTCCTTGTCAAATGCAACCNCTCGAAGCCAATCACNA
AAATTGTTCTTCTTAAGGTNTTTCTTGGTAAGGTATTTCAAATACCTTTTAAANAACGTGTTTNTNAA
AAACAACCTGNGATTTTATTNTTGAAGCGTTCAATGNGAACAACATTCCCNAAAATTTCCAGTTTTC
CNTTGACTTTAAACCTTNTCCCGTAAAAATTGCTCCTATTTTAAAAACANAAAAAAATGCAAAACTAG
GGAANANAAACCCTAAATTTNCCTAGGGAAAGGTNCCTTGCCCGGGCGGGCCGTTTCNAAAGGGCGAN
TTCCANCCCACTGGCGGGCCGTTACTANTGGGATCCCAANCTCNGTACCAAAGCCTTGGGCGGTA
TTCATGGGNCATAANCNTGTTTCCTGGG

SEQ ID NO: 1339 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGCTCCAAAGATCCTTTACTG
AGATCCACTTGAAACACTTCGGTCCTTAAC TTGTTAACTGAGTTGACAGGCTGATGGCTGATCTAG
GTAAAGGTTTCACGGTAGCAAAAACACTTCCTGCCTATAATACATCAAAACAGGTTCTGAATGTG
TGTGAATATCATCAAGGNCCTGTCCCATCTTNTTCAGGGTTCGATTAAAGCTCCTCAAATTTGTGG
ATCTGACGGATGAANAAATCCCCATAACGCCTGGCGACCTTGGTGTCCGCGATGTGGATCATGTCC
TTATCAATGTANAAGTCAACCTCTGAGGCTGACTGAAATTACCATCCAGGGCTGAGATACCGCTG
GTCCACACGAGGTTCTTCATCTTGTGTTTGAAGACAAGAAGCTGGATCCGGAACCTCCTGCTCTNG
AGGTC CANGAAGCCANCCAGCTTGGCCCCANGCATGGTGGTGTAANCTTCANGAAACTCGCGGA
TGTTTGAAAGCTNGGCCCTTGCTGCTTNACCCCTCGGGCCGGGANACCCTTTAGGGCGAATTNCACA
CNCTGGCGGCCCGTTCTTA

SEQ ID NO: 1340 ACGCGGGGCTCTTCTAAGCCGGCGCTCGGCAAGTTCTCCCAGGAGAAAGCC
ATGTTCAAGTTCGAGCGCCAAGATCGTGAAGCCCAATGGCGAGAAGCCGGACGAGTTCGAGTCCGG
CATCTCCCAGGCTCTTCTGGAGATTGGAGATGAAGCTCGGACCTCAAGGCTCAGCTCAGGGAGCTGA
ATATTACGGCAGCTAAGGAAATTGAAGTTGGTGGTTCGGAAAGCTATCATAATCTTTGTTCCCG
TTCTCAACTGAAATCTTCCAGAAAAATCCAAGTCCGGCTAGTACC

SEQ ID NO: 1341 GGTACGAGGACTGGATGGAAGGTGATTTGTGGCTCCCAGTGAGGGTTGAA
CTATCGACAGGCATGCCTCGGAGATCACGTTTTGATAGACCACCTGCCCAGCTCCCTTTGATCCA
AATGATAGATGCTATGAGTGTGGCGAAAAGGGACATTATGCTTATGATTGTCATCGTTACAGCCG
GCGAAGAAGAAGCAGGTACGGTCTAGATCACATTCTCGATCCAGAGGAAGGCGATACTCTCGCT
CACGCAGCAGGAGCAGGGGACGAAGGTCAAGGTCAGCATCTCCTCGACGATCAAGATCTATCTCT
CTTCGTAGATCAAGATCAGCTTCACTCAGAAGATCTAGGTCTGGTTCTATAAAAGGATCGAGGTAT
TTCCAATCCCCGTCGAGGTCAAGATCAAGATCCAGGTCTATTTACGACCAAGAAGCAGCCGATC
AAAGTCCAGATCTCCATCTCCAAAAGAAGTCGTTCCCCATCANGAAGTCCTCGCAGAAGTGCCA
AGTCTCGAAGAATGGACTCAAGCTCAAGTTCACCTTTANGGAAAGATTATTTGGTTTACATT
TATTIATAAGGGGATTTGNGGATGTCTGTNAAAGTGTAACCTAAGGAAAGATAATTCACCCCTTCTA
ATTCAAAATGGGATCTGGATTACTATGNTAAATTCACANCAGGTAANAATAATATTAATTTTGT

SEQ ID NO: 1342 GGTACTTTTTTTTTTTTTTTTTTTTTTCTGGACAGNGGTTTTATTGGTAAAGATA
TAAGACATATTGGCTCTATTA AAAA ACTCAGGTAATAAAGCACTAAGCTTGATTTTTGTATTGCTAC
AGTCTCTTTCTTCTAAGGGGAAGAAAATCTCCCAAGAATAGGATGCTACCTGAGGAATTATGCCG
AATAAAGAAAAGGAATGGATGGTCGGCAGTGAAATTTTCTTCGGGCATCAACATGCANAAAGTTG
CGATGCCTGCTGTGGCAGCTGCCGCCTCTGTTCCCTCTTCATTCAC TTCCACAAATGACTTG TGGAC
AATTTTTGATATAAAAATATCTCTGGCTCCTGACATGCCAGACAGATCAGCCTTGCTACTGT TAAA
GAGATCCTGCACACCTAGGCGGGCGAGGTCGGAGTTGANAGTGTA ACTCTCTCCAGTTTGAACCT
GGGCAAGCTGACATTAACCTCAATGAAATCGAGATTCTCAGGTTTAAAGTCCCTCATGCAACTTTTC
CAAAGTCAACTGTTCCCTCAATCTTTCTTCANGCCCGTGGACTCGTCTCAATGTCA TCCGGCACAA
GGATGACCTTCTGAGCTCCTCGCCTTGGGTAAAGGCAAGTTNCCAGCACACCGGCCCTTAA

SEQ ID NO: 1343 GGTACAGTTGAAATAACTGGAACAAATTATTTTTGGTGTGTGTGACAATTCTG
TTTTTAATGCTATTTGAACAAGTGGGCCATTAGCCAGATTTGTCTTTTTGTGTGAAAAACAAAATTTG
ACTAATTTTACATGTTTATAAATCTTATGCTCTCACTGTTTGTTTTATTTAAATTACAATTTTATCT
GTTTCCTGACATTGTCTCCTATATATTTCTATTATTAATTGCAAAAACATAGAAATGGAAATTTTGC
TATCAACAATAAAATTTTTTTAAAGTAGTGAGTGCTATTTGGAGTTCCAAATTTTCAGTAGGAAG
TATCTAAAACTTTTTTAATACGTGCCATTATCTATAGAAAACATTACTTCAGGTTGTGAGATTGAG
TTGCATTTCTGGATGGACTGATGAATTTATCCCGACATGAAGAAGATTGGCATATTAGCTTTAAAA
ATTTTTAAAGATTGGATTTTTTTTTAGTATAAGCCACTTTCTAANGATTATAGAGAAATGTTTCACTT
CCAATTGCATAGCAAAAAATAGTGGTTAGTAAAGAAAAATAGGGTTACATTTAANGGAAGNCGCTTT
TAAAAAACCCAGAAACCAGACTTTTAAATTTTAAATTTGTNGGACACCCTTTTTAAAAATTTGAATC
CAAAGATTTTTTATTTTANATTTTNCAATTACCCCCCTTTTTNTNGATAAAGTTTTTAAAC

SEQ ID NO: 1344 ACGCGGGGGACGCCGAGACAAACCGGACCCGCAACCACCATGAACAGCAA
GGTCAATATCCAACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACCCTCAGACC

TTGCATCTTCCTCAGGCTCCACCCTATACCGATGCTCCACCTGCCTACTCAGAGCTCTATCGTCCGA
GCTTTGTGCACCCAGGGGCTGCCACAGTCCCCACCATGTGAGCCGCATTTCTGGAGCCTCTCTGT
ATCTTCCCATGGCCCAGTCTGTGGCTGTTGGGCCTTTAGGTTCCACAATCCCCATGGCTTATTATCC
AGTCGGTCCCATCTATCCACCTGGCTCCACAGTGTGGTGGAAGGAGGGTATGATGCAGGTGCCA
GATTTGGAGCTGGGGCTACTGCTGGCAACATTCTCTCCACCTCCTGGATGCCCTCCCAATGCTG
CTCAGCTTGCAAGTCATGCAGGGAGCCAACGTCCTCGTAACTCAACGGAAGGGGAACTTCTTTAT
GGGTGGTTCAGATGGTGGCTACACCATCTTGGTGANGAACAANGCCACCTCTGTGCCGGGAAAGA
CATCACATACCTTTAGCGCTTCTTACAATGTAAGTGTCTTAATCATATTAACCTGAAGTTGCAAGTT
TAAACACATGTTGGTTGGGGGGGTCTTTCTGGNGCCCNAACTTTTANGCACTTTTTCAAAATTTA

SEQ ID NO: 1345 ACCACATATCCCATTGACTTCTATTTGTGTGAAATGGCCTTTCCCCGGGTCA
AGCCAGCACCTGATGAAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAGGACCTGGCTCCC
AATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAATCTG
ATTGTGGCTCCAGGGACATTTGAAGTGCAAAATTGAAGAAGTTCGACAGGTGGGATCCTATAAAAA
GGGGACAATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCAACGT
TGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGGAAAGCCTAAGAGCACAGGATCCTTCTGAA
GTTTTAACCATGCTGACCAACGAAACTGGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATT
CTCATTACAACAGTGCCACCCAATCTTCGAAACTGGATCCAGAACTCCATTTGGATATCAAAAGT
ATTTGCAGAGTGCCTTANCAAGCCATTCGACATGCCCGCTTGGTTCGAAGGAAAAATCGCTTTNTC
AATCCCAAGTTAAAGTTCTCATCANACTGTGAAAGGACTTGAGGATTCTGTTTCTGGCTTTTG
ANCCCCTNACACCCTTGGATCCTTTGACCTACTAGGCCATTTTGCTGNGATGAACAACCCCNCCAA
A

SEQ ID NO: 1346 ACTCAAAGGTGATATTTGCTTTTTTCAATGCTTCAGGGGAAAAATCCTTTTCT
TTACAACTTCCATCAGTTTAGGAGTCAGTCTGTATGCCTTTAGTGAGAGAGATCCTTGGGCAGTT
TTTATGGGATCATAAATGAGAACGACAGATTCTTCAATGGCATGCTGGTAACTAACTGAGAGTC
CAGGAGTGCCCCGGGTAACGAATGAGCCATAGTATGTGGACTGATACCAGCCCACGTGAAGATGAT
CAATGTTTACATGGCGAAGGCTCCGCATCATTTCATCTGATATTGGACTTCATCAAGTCAGCAT
CATCCTCTGTGTGCTGAGGGAAAGGAAAGCAGTTGGTAATTTCAAGCCGATCTTCTACAACCAGA
CCCAAAAGCACTCCTTGAACAACTTCAGTTCTTGTCTTCTTCTTGATAATGTTTGATTATCTTTA
ATACCACAAGGCCATCTATCTGCACTTGCTTCACGGCTGAATCTCCCGAGCCCGCCTTTGCCTTTG
CCTTTTCTGCTTGCGCCCCGCCGTGGAGCTGGAAAAANGTGGGCAGTANAGCCCGT

SEQ ID NO: 1347 GGTACGTTTTTGCCAACCTATGAAATGGCCGTGAAAAATGCCTGAAAAAGAACC
ACCACCTCCTTACTTACCTGCCTGAAGAAATTCTGCCTTTGACAATAAATCCTATACCAGCTTTTTG
TTTGTATGTTTACAGAATGCTGCAATTNANGGCTCTTCAACTTGNTTTGANATNAAATATGGTGG
NTTTTGTAAANCAATTTATTTTCNAACACTAAAGAGCNTTTTNACATNTGTTTAAACGCTTTTGT
TTTTTGTAAAGNCNTTTACANTTTTAATAGTTTTTTGAAGACAAATCTTAGGGTAA

SEQ ID NO: 1348 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGANACGGAGCTTTGCTNTTGTACC
CANGCTGGAGTGCAATGGTGTGATTTTGGCTCANGCAATCTCCTCCTTCCAGTTTAAAGCAATTC
TCCTGACTCANCCTCCTGAGTAGCTGGGATTAAGCAATGNGCCATTACNCCTGGCTAANTTTTT
TTTTTTTTTTTTTGNATTTTTAANAAAAACAGGGTTCTCCATGTTGGTCAGGCTGGTCTCAAACTC
CCGACCTCAGGNGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTG
NGCCCGCCACCAGCCCGT

SEQ ID NO: 1349 GGTACAAATAGTTACTGAAATGACNAGACCCTTGTTTGCACAGCATTAATAA
GAACCTTGATAAGAACCATATTCTGTTGACAGCCAGCTCACAGTTTCTTGCCTGAAGCTTGGTGCA
CCCTCCAGTGAGACACAAGATCTCTCTTTTACCAAAGTTGAGAACAGAGCTGGTGGATTAATTAAT
AGTCTTCGATATCTGGCCATGGGTAACCTCATTGTAAGTATCATCAGAATGGGCAGANATGATCTT
GAAGTGCCACATACACTAAAGTCCAAACCTATGTCAAGATGGGGGGTAAAAATCCNTTAAAGAACN
GGAAAAANTATTNTAAGATGATAAGCAATGTTTCANCCCAATGTCAACCCAGTTAAAAA
ATTAATGCTGNGTAAATGGTNGAATTGATTGTGNAACATATATAANACATATGCAAGTAAAAAAG
TCTGTTAATGCACATCCTGTGGGAATGGAGGTGTTCTAACCAAAATTGCCTTTTCTTGTATCTGAGC
TCTCCTATATNTCATACTCAGATAACCAAAATTAAGAAATAGAAATTTTGAATTTTAAATACCCT
TANATTTAAACTCTTTTAACTTTTCTTNTTTTNGGNGATAATTNNGAAAAATAGTTTATNGGATCT
TCAATGGCCTCNTGNGTCATTGTTTTAAAAAATCANTTTTNACTTTTACCNTGGCCTTNA

SEQ ID NO: 1350 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNGCNGATAAACAGACATGTTTAA
TGATAGCTTGCTTTCACAGAGATGTCTACAGAGACTTTTAAATCTATAATCCAGGAGTATATAACC
ATGCAGCACANACCAATTAGCCAAATGCAAAATAAAGTATCTTACCACAACTATCCTATAAA
CACTGCAACTATTNTTTCCAAAAGGACCCTAATCTTATGTGAAAAACCTACTGNGGGGGAACCA

NAAACCTAGCTATNTGGCCAAAAGGAAAAAATAGCAATTCAGTGGTTAATTGGTGAAAGCAGGA
AATGTATGCCCTTTACTGTGCTGCTGTTGCTGCTGTTGTTGCTGCTGTTGTTGCTGCTGTTGCCGCT
GCGGCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTTTGGTCTTCTTAGTTTTGNTCTTTTTGNCTCT
CTTCTTCAGCCCATCCATTGTTACTTCTAAGGGAGGNTGAATAAACCANCTGAAACTTATTNCNC
TTCCTTGAGCTCAACCACANTGCTGATNTTCTTTTTTCCCATCGGNAGCTCGGAACAAAANCTTGT
TGTCTTGCGGGCTCAAAACCCCTNCCAAATACCTGGCCCGGGCCGGCGGTTCTAAAAGGGCGG
AATTCCCACCANACTTGGNGGGCCGTTACTTATTTGGGNTCCCANNTCGGGNACCAAACCTTGG
GG

SEQ ID NO: 1351 GATACACAGAGTAAAATGTTTTTCTTTTTTTCAGGACCTTGAACCTGAATCTTGC
ACTGCTTTGGTTTCTATCTAGGAAGCTCAGCGACAGTAGAGTCTGTAGAGGCGGCCACTGATTTC
CACACCCCGGAGAGGGACTCACGGGTAGCACACGGCCAGTTTCGGCAATAGCAGGTGGCTCTTGC
CTGAGAACCTGAGGTTCTAAGAGCAGAGAGTCCATTTCCTGCAAAGGAGATAGCAAGGTCCTGGT
TGTCTTCCCCANACTGCNTCTGGGTGNANCCTCATCAGCTCTTTCCTGGAGTGACTNAAGCCTGG
GGCTGCATGGNCACCAC

SEQ ID NO: 1352 GGTACAGGAGATCTCATTTGGGACAACCTAAGGATAAAAATGCTGGTCATCGAG
CAGTGTAAGAACTCCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGA
GGCGAAACGATCCCTTACGATGCTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGT
GTATGGAGGAGGGGCTGCTGAGATATCCTGTGCCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCC
CCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCACTGGAGGTCATCCCCATGGCCCTCT
CTGAAAACAGCTGGCATTGAATCCCATCCAGACTATGACCGAAGTCCGAGCCAGACAGGTGAAGGA
GATGAACCTGCTCTTTGGCATCGACTGTTTTGCCAAGGGGACAAAATGATATTGAAGCAACAGC
ATGTCATAGAAAACCTTGATTGGCAAAAAGCAACAAGATNTCTCTTNCCACACAAATGGTTATAA
TGATTTTAAAGATTGATGACATTCGTAAGCCCTGGAGAATCTNNAAGAATGAANAACATTTGAN
AAAAANCTTTGTTCCAAGATCCNCTTTTTGTGANTTAAANTAAAATGGGATNGCCTCCGTGGTGCN
TCT

SEQ ID NO: 1353 ACTTCTCATTTTCATTCTCCTTCAAAGCTTTCTTTCAGCATAGGCTCCTTTTGTT
ATCCTCCTCCTCTTCTCAGACAATGGTGAAAAGGCAAAACCTCTGGTTGTTTGCAGATGGTCGCCA
GAGAACCATGATGACAAAGAGGATCATGGAGAACAGCAAGCGCCAGATGGCATCGTCTACCCAC
AGCTCCCGCCAGTCCGACTGACATGTCACTATTCTGAACTTCATGGTTGTCCAGATGATAAACACA
ATGGATGCTGCCACTGCCAAAATAAGCGTGTTGGTGAAATGCCGATACAAAGAGAGTTTTACAAT
GTTCTCCGAAGTTTAAATAGCTTCATTGTTGAGTCAGGCTAATAAATATCCATAAAAATAACACA
GGCGTCAACTGCTGAGAGGGCCAGGTTTACTATCAGAGTCAAGGGGATAAGAAAAATACCCAGTA
ACTCTGAGGACCCCTTCCATGCCAGAGAACAAAAGATANAGGGCTCCTGCTACTACAACCTTATG
AAGAGTGCTCCANGCGTGCGTGGGCTTGACGATGCCCATATCCAGACCCCGCGTACCTTCNGCCCGG
GACCACG

SEQ ID NO: 1354 ACTGTGTGCAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTAC
CAAGGAGGGTCTGGAGCTGCCTGAGGATGAGGAGGAGAAGAAGAAGATGGAAGAGAGCAAGGC
AAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAAGAAGGTTGAGAAGGTGACAA
TCTCCAATAGACTTGTGTCTTACCTTGCTGCATTGTGACCAGCACCTACGGCTGGACAGCCAATA
TGGAGCGGATCATGAAAGCCCAGGCACTTCGGGACAACTCCACCATGGGCTATATGATGGCCAAA
AAGCACCTGGAGATCAACCCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAAGGCTGAGGCCGC
AAGAATGATAAGGCAGTTAAGGACCTGGTGCTGCTGTTTGAAACCGCCCTGCTATCTTCTGGC
TTTTNCCTTGAGGATCCCCAGACCCCTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTA
TTGATGAAAATGAAGTGGCAGCANAAAGAACCAATGCTGCNGTTTCTGATTGA

SEQ ID NO: 1355 ACACGTCAAATAAGAACTACTCTTAGCACAGAAATAACAGAAAATATGCTC
ACATCCTATGGTGTGAGGCATGGTGGGCCACTCTCCACATAGAGCGCATTCTTTGCCACTGGTGGC
TAATGTATTGTCACTATTAGGTGCACCAAGTAAGAGGAATACACCATGAAGACAGCTTGGCTTCAA
CTTCTGGACATTGATAAGTGGAAGAGAAAAATCAGAAATTCAGCAAAACCATGCCAGAGAAATT
CCCTATTTCATGTATTCAAAGCCAACCTTACGTTGTTTTGAGGCTTGCAAAAATACAGAATGAATAC
CTAGGAGACGTTCTGTCAAAGTTNGCNAACCTTTCCCTCTGAAGGAAAATCAAAAAATTAATCAG
CCCACCTAATTTCAAAGTCCAATCACAAAATTCACACACTGCTTGACTTTCCNAAATGATGCTAA
ATGATGGTTTTCGAAACAAATCATTAGCATCGTTCTTCTAACCACCTGCCNCAATTTGTACCTING
GCCGGGAACCCCNATAAGGGNGAATTTCCCTC

SEQ ID NO: 1356 ACGCGGGGGGGCCTCCATCAGCAAGCTCCAGTGCTACGTGTCCCTGGCATT
TAGGTGTCGGTTGGGTAGGCAGTCATGGATCAGGTAATGCAGTTTGTGAGCCAAGTCGGCAGTT
GTAAAGGACTCCATTTCGGCTGGTTAAAAGATGCACTAAACCTGATAGAAAAGAATTCAGAAGAT

TGCCATGGCAACAGCAATAGGATTTGCTATAATGGGATTCATTGGCTTCTTTGTGAAATTGATCCA
TATTCCTATTAATAACATCATTGTTGGTGGCTGAATACATTTTGGAAAGAGAGTTTTTCATCTTAGAG
ATTGGTGAACAAGTGTGAGGGTGTGAGAACTCACAGAATACAAATTTGCCTGTATGTTTTGTGG
GTTTTTTTTTCTTTCAAGATGTTTTCTATTCTAAATTAAGTAATTCCAAAAAAAAAAAA

SEQ ID NO: 1357 ACCTTTTGGTGCCAGCGTTTCAAGGAGCCCTCACCATGAAACAAGTCAACCC
CAGCAAGCGTCTAGATCATTTGCAGCGGGCTCGAGAACACTTTATAAACTACTTAACTCAGTGCCA
TTGCTATCATGTGGCAGAGTTTGAGCTGCCCAAAACCATGAACAACCTCTGCTGAAAATCACACTGC
CAATTCCTCCATGGCTTATCCTAGTCTCGTTGCTATGGCATCTCAAAGACAGGCTAAAATACAGAG
ATACAAGCAGAAGAAGGAGTTGGAGCATAGGTTGTCTGCAATGAAATCTGCTGTGAAAAGTGGTC
AAGCAGATGATGAGCGTGTTCGTGAATATTATCTTCTTCACCTTCAGAGGTGGATTGATATCAGCT
TAGAAGAGATTGAGAGCATTGACCAGGAAATAAAGATCCTGAGAGAAAAGAGACTCTTCAAGAGA
GGCATCAACTTCTAACTCATCTCGCCAGGAGAGGCCCTCCAGTGAAACCCTTCATTCTCACTCGGAA
CATGGCTCAAGCCAAAGTATTTGGAGCTGGTTATCCAAGTCTGCCAACCTTTGACGGGTGAGTGAC
TGGTATGAGCAACATCGGAAAATATGGAGCATTACCGGATCAGGGAATTACCCAAGGCAGCCCC
AGAAGGAATTCAGAAAAACNGCTCA

SEQ ID NO: 1358 ACGCGGGGGCAGTTTCAACTGACCTCTGGACGCAGAACTTCAGCCATGAAG
GTAACAGGCATCTTTCTTCTCAGTGCCTTGGCCCTGTTGAGTCTATCTGGTAACACTGGAGCTGACT
CCCTGGGAAGAGAGGGCCAAATGTTACAATGAACTTAATGGATGCACCAAGATATATGACCTGTG
TGTGGGACTGATGAAATACTTATCCCAATGAATGCGTGTTATGTTTTGAAAATCGGAAACGCCAG
ACTTGTATCCTCATTCAAAAATCTGGGCCTTGCTGAGAACCAAGGTTTTGAAATCCCATCAGGTCA
CCGCGAGGCCTGACTGGCCTTATTGTTGAATAAATGTATCTGAATATCCCAAAAAAAAAAAAA

SEQ ID NO: 1359 ACGCGGGCAATGATGGGCTTTATGATCCTGACTGCGATGAGAGCGGGCTCTT
TAAGGCCAAGCAGTGCAACGGCACCTCCACGTGCTGGTGTGTGAACACTGCTGGGGTCAGAAGAA
CAGACAAGGACACTGAAATAACCTGCTCTGAGCGAGTGAGAACCTACTGGATCATCATTGAACTA
AAACACAAAGCAAGAGAAAAACCTTATGATAGTAAAAGTTTGCGGACTGCACTTCAGAAGGAGA
TCACAACGCGTTATCAACTGGATCCAAAATTTATCACGAGTATTTGTATGAGAATAATGTTATCA
CTATTGATCTGGTTCAAAATTTCTTCTCAAAAACTCAGAATGATGTGGACATAGCTGATGTGGCTT
ATTATTTTGAAAAAGATGTTAAAGGTGAATCCTTGTTTCATTCTAAGAAAAAAAAAAAA

SEQ ID NO: 1360 GGTACACCAGACTTTCTTGTAACCTTCAGCCACAGGAAGGTCCAAACTAATG
ATTTTATTGTTCACTAGAAGCTCCATGCCACTGTCATCTTCCAGGAGGGCCACTAAGTCACAGTCC
TGGCAAATCTTGTTCTTTATATCCCTCATCAGCGGCCCGATGCCTGGCTCATTGCTGCTATACGGGT
TCCCAGGCATCCTGCCCTGTAAGAAGTCTTCTTGTTGGGGATCCTTCTCCAGGGTCACAAAGAACT
CAGTGACTTCATTCTCCTCAGGATAAATGATGCTGCAGAGCCTCTCGAAGATGAACACCGGGGTCC
GGTAGTCATCCAGATTGTAGCGCTTGGCTGTCTCAATGCACACAGCCATGAAGGCCTTGTTTCTG
ATTCTGT

SEQ ID NO: 1361 CGAGGTACTTNTTTTTTTTTTTTTTTTTTTTGGGGTCTCACTCTGTCACCCAGGCT
GGAGGGCANTGGCGGGATCTNATCTCACTGCAACCTCTGCCTCTCAGATTCAAGCGATTCTCCTGC
CTCAGCCTNCTGAGTAGCTGAANACTACAGGCATGTGCCACCNCACCCAGCTAATTTNTGAATTT
TTAGTAAANACGGGGTTTCACATTGTTAGCCAAGATGG

SEQ ID NO: 1362 GGTACTTGAAGCTGATGCAGAAAAATAAAAAATTTAATATAATTAAGCAAT
TTATATATCATCATGAAATAAAGAGAGATTTGAACTATGTAGTCAACAGAGGACAAAAAAAAT
CTCTCAAGCAAGAGAATTTCTGATCAAATCTGTCAATCACTGCTGCGGAAAAGGACCATTAAAG
GCAATACACATCAGTGCCTTTCTTAAATGTATAGACTCAAAATAGGTGTTTTTTTGGGCACTAAG
AAAAAAGATTCTCTAAGCAATCAAAAATCAGCATTGAGATTAACTACTAAATCCAAAATGAG
ATCAGCAAAACCAGATNCTAGTAAGGCACTAGGCTCACAAAATTGACCTTTGGAGAAANAGAGAT
GCCCAAGAGTAATATTNCTTCANAATGNGNGAAANCTGAAAACCTTATCCCCCTTT

SEQ ID NO: 1363 GGTACATAGACAAGTTTCTTGTAAGACAGAAAACAGAGAAATCCACAGTAAC
TCTAACACATCCCTTAAGGAATAAGCATGATTTGTAGGAAGCAAACAAAGCTTTCCATAGAGAA
ACCACTTTCACAGGATGATTAGGTGGACCTGCAATGAAGAAAATACATTTCAAAAGATGGGTTCA
GACTTACACCAAGTTTCACTGAAATACTTAAAAAAGACCCTTCTCTGTTCAAAAGAAATTA
AAAAAATACATCCCGGATTAAATAAATTTGAGGAAAAGGTCAAGTCCTACTCAGAGACATACATT
TGCAAAATTNATATAAATTTTTAAGGTTGGCCACCAAAATNCCTATTGGGACCTCCTTAAANAT

SEQ ID NO: 1364 GGTACTGGCCACACCAATCTCAGGACCAGCATTAATATGAACTCCACAATCT
GTCTCCCGTGATATGGAAGTCCAACCTGTGTTTGTGATCCCCACAGTTAAAGCTCCTCTCTCCTTAC

AGTAACGAAGACCCATCAAAGTATCTGCTGTCTCACCTGATTGACTAAGGAAAAAGCAAACATCA
TCTCGAAAAGACTGGTGTGTTTCTGTCCAGGAAGTCACTTGCTAGTTCCACCATCACAGGCAACTCA
GTCAGCTCCTCAAGAACTTGACGTGTTGCTACACCAGCATGGTAACTTGTTCACAAGCAATAAGA
ATCAAACGCCGGCATCTCTGGATCTCCTTTATGTGATCCTTCAAACCACCCAAATTCACAGTATAG
CATCAAAGTTGACTCTTCCTNTCATTGTNTCACGACAGACTCTGGCTGCTCAAATATTTCCCTTCTGC
ATAAAATGAACTGAAGTTGCCNTCATGATCTGCTGGGAGTTTCCATCNGGAAGTGGTTTGNAG
NCTCGTCCNGGGGGTGATCTCCTTCAGTTCGTTTAAATTCGANTGGATAGAAAAGAACGTT

SEQ ID NO: 1365 GGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATC
TATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGAGCCACAATGCCTTCT
GATGTGCTTGAGGTGACCAAGAAGTTCATGAGGGACCCATTTCGGATTCTTGTCAAGAAGGAAGA
GTTGACCCTGGAGGGTATCCGCCAGTTCTACATCAACGCGGAACGAGAGGAGTGGAAGCTGGACA
CACTATGTGACTTGTATGAAACCCCTGACCATCACCCAGGCAGCCATCTTCATCAACACCCGGAGG
AAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTACCGTATCCGCCATGCATGGAGA
TATGGACCAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTCTGGCTCTAGCAGAGTTTGA
TTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCATCAACTATGACC
TTNCCACCAACAGGGGAAAACTATATCCACAGAAATCGGTGCGAGGTGGACGTTTGGCCGTAAAG
GTGTGGCTATTAAACATGGNGACAGAAAGAAAGACAAGAAGGACTCTTCGAGACATTGAGACCNTT
TACAACANCCCTTCATTTGAGGAAATGCCCTCAATGGTTGCTGACCTCATCTGANGGGGNTGGTC
CTGGCCACCC

SEQ ID NO: 1366 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCCATGCAACAATGTCTTTTATTATGT
ATGCGGNTTTAAAATTATTTCTTGAATCTCTCCATACACAGGCAAAAATAAGTGNGTTACTTAACA
TACTGGAAATTGCCTAACTTAATCATTGCCTAAANAANANAAAATTATCCCCAAAACGTGCTTAAC
CAGGAGGCCAATGCATTTGCCGACCTCCAANAACATGGAGATGAACGTGATANACANACTGTCCA
CCATCTGAACCTTCATTCACCACCATTTCGATAACCCCTTATTCAGGCCCANATCAGCAGCACATTTN
TTGCCAACAAATCATTAAAGTGCCAANAANACTTTTCATCATCATCTTCTGCCACANAAATCTGGGAT
ATATGTTTCTTGGGTATCACCAAAAAATGTGTTGGTGCTTGAGGGGAAATGTCATGGAAAGCAAG
GCACCGGTATCCTCAAAAATGATTTGGCTGGTATTTCCCTTGCGGATGATCTTCCAAAAAATCGT
GTCGCCCCCAGGCCGAGCGACCTGAGCCTTGCAATCTTATTTTGCCATTTTGGGCT

SEQ ID NO: 1367 GGTACGCGGGGGAGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGAT
CTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGACGAAGAATTTGATGAACTATGTTTTGAATTT
GGNCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAGTAAAGAACAAGGTAATGTAA
AGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAGATATGATCTCC
TGTGTCTGGAAGGATTGGTTCGAGGACTTCAGGTCTTNAAAGAAAGGATAAAGGCTCCAGTGTAT
AAACGGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGNTAAGATAC
GTCCTTTTGCGGGTAGCAGCAAGTTCTCCGTTATATAAAGTTTACTTAAAGATCGATATGACAGCT
TCATTGAACTTCAGGGANAAATTACATTNNAATATTTGCAGGAAAAGAAGCNCCTGGTTNNCATT
GGTCTGCCCCGGCGGGCCGCTTTAAAGG

SEQ ID NO: 1368 GGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTA
ATTCATTGCCTCTGCTTCAACAATGTGCAACTCATCTTTGCACCAGCCCCCTAAACTGACCGTTCTT
AAAGATAACTGGTGCTCATTTTTCATCATTATCCACCTTAAAGTGATAATCTTTGTGCGCCTTTAGTT
CACAACCGAAAAGATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGCCATCGAATCTTCCATCG
GGTGGCGGCACGCACTTAGGTAGGAGAGAAGGCCGACGGAGATAAAAGAAGCGTGNTCCAAANA
ACAACCCGCGCANGAAGGAATCACACCAGGGCCCCGCGTACCTGCCCCGGGCGGCCGNTNAAAA
GGGNCNAATTCCA

SEQ ID NO: 1369 ACACACCTTTGTCCACTGGGTAAATTATATTCATTATGCCCACTGCTGCAGCA
CGCATAAACCAACACCCCTGCATGGCTGAACAGGGCCTAATCTAGGACTGATGGGAGAAGGGCTT
GCAAACCAAGATCAAGGTGTTCTCCGCTAATACTGTCTACCAAGCTGATCCCTACAAAAATGCAT
ATAAAAGCAGGCAAGTTTAGCTACTGTGTTGCAAGAGAAACCAGGACCTTGTTAAATANGNTCTN
TCCATTACCATTTATTCTCTCAAGGGAAGCTTAAAAAACAACAACACATCATATTGGTC
TGGCCACCTNATGAATTCCAACAAGCATTAGNGTGGCATTTCANTTGGANAAGGAACTTTGGGG
GGAATAATAC

SEQ ID NO: 1370 AAGTGTA AAAAAGGTGAAGCCAACCTTTGGCAACGTATCTCAGCAAAAACTACA
GCTATGTTATTTCATGCCAAAATAAAAAGCTGTGCAGAGGAGTGGCTGCAATGAGGTCACAACGGTG
GTGGATGTAAAAGAGATCTTCAAGTCCTCATCACCATCCCTCGAACTCAAGTCCCGCTCATTACA
AATTCTTCTTGCCAGTGTCACACATCTGCCCATCAAGATGTTCTCATCATGTGTTACGAGTGGC
GTTCAAGGATGATGCTTCTTGAAAATTGCTTAGTTGAAAAATGGAGAGATCAGCTTAGTAAAAGA

TCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAGAACAGTTCAGGACAAGAAGAAAACAG
 CCGGGCGCACCAGTCCGTAGTAATCCCCCAAACCAAAGGGAAAGCCTCCTGCTCCCAAACAGC
 CAGTCCCAAGAAAGAACATTAATACTAGGAGTGCCAGAAAGAGAACAACCCGAAAAGAGTGTG
 AGCTAACTAGTTTCCAAAGCGGAGACTTCCGACTTTCCTTTACAGGATGAGGCTTGGGCATTGCCT
 TGGGACAGCCCTATGTAAAGGCCATGTGCCCTTGCCCTNAAAACTCNTGGCAGTGCTCTTTATAA
 NACACATTTTTNCAACATTTTTCTTAAGGCTTTGCTTCANTTTTTNTTTGTANTC

SEQ ID NO: 1371 ACGCGGGAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTC
 CAGTTACTGAACTTTCAGCAAGTGGACCTTTTGAAAGTCATGATCTTCTCGGAAAGGTTTTCTTG
 TGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTATCAGAAAAAAATTTCCAGCTCAACC
 AAGATAAAATGAATTTTCCACACTGAGAAACATTCAGGGTCTATTTGCTCCGCTAAAATTACAGA
 TGGAAATCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTCAAGCTCAAATCTTTCAGTGG
 ATGTTTTGAGGGGTAATGATGAGACTATTGGATTGAGGATATTCCTAATGATCCATCACAAAGCG
 AAGTCATGGGAGAGCCACACTTGATGGTGGAATATAAACTTGGTTTACTGTAATAGTGTGCTGTTT
 ATGGAACCGAGGGCTGCATCTTGTTTATAGTCATCTTTGTACC

SEQ ID NO: 1372 CGAGGTACAGTTTGCAGAATATATTCAGAAAAACGTGCAACTTTATAAGATG
 CGAAATGGATATGAATTGTCTCCACGGCAGCAGCTAACTTCACACGCCGAAACCTGGCTGACTG
 TCTTCGGAGTCGGACCCNTATTTCATGTGAACCTCCTCCTGGCTGGCTATGGTGGAGCATGAAGGG
 CCANCGCTGTATTACNTGGACTACCTGGCAGCCTTGGCCAAGGCCCNTTTTGCAGCCNACGGGNT
 TTGGTGGCCTTCCTGACT

SEQ ID NO: 1373 ACGCGGGAGATGACCTTTTGAGTCAGTGGGCTGGGAAAGGCAGACCCACCCT
 TAATCTGGGTGGGCACCATCCCCTCAGCTGCCAGTGCAGCTAGAAAAAGCAGGCAGAAGAAGGTG
 GAATGAGCAGAGGTGCCAAGTCTTCTGGCCTTCATCTTCTCCCATGCTGAATGCTTCTCCTTCA
 AATATCAGGCTCCATGTTCTTCGGCTTTTGGACTCTTGGACTTACACCAGTGGTTTGCCAGAGGCTC
 TCGGGCCCTCAGCCCGAGACTGAAGGCTGCAGTGTGAGCTTCTCTACTTTTGAGGTTTTGGGACTC
 GGACTGATCCACTACTGGCTTCCCTTGTCTCCTCAACTTGCAGACGGCCTATCGTGGGACTTCACCTT
 GTGATCGCGTGTGTCAATTCCCCTTAATAAACTCCCTTTCATATATACATGTATCCTATTAGTTCTG
 TCCCTCTGGAGAACCCTGACTAATACAGCAGGTATGGAGAGAAGTTTATTGGGGACTGACTTATG
 GAGAGACAGAAAAAGTCACCTCACCTTTCTGGCTGAATCACGAATCACAAAATTTTTTAGTTTA
 TGATGAAAACCTGGGAATTCNTTTCTGTCATATACACAAAGGATCTNCTTTCTATTTGTGGGCTG
 CATAAGTTAGGGGAACCTTTTGAGAACANAAAAACATCANAACTTTTCTTTATTGAAAGG

SEQ ID NO: 1374 ACGTGAGGAAAGGATTCCACTCAAGTATAATCAGCAATACTCTATTGAATGA
 AACCATAACTCCACTTCACTCCCTATGGTAAATACTAACATTCACCACAGGCTTGAAATTCCTGTA
 GCATCAGTAGAACTATTTTGAATAATACAAACATGCTTATGATGCATAGGAGGATGAAAAAA
 TTTAGACTGTAACCGCACACCATATGTAATCCCAGCTTTTCTAATTTACAACCAGTTTAAGAATTA
 CAATATCCAAAGAAAGNATTTTTAAATATATTTGCTCACTGGNAAAGGGANTTTNTACTNAAAT
 AAATAGGAAAAANTTGCATTTTAATGTCACAATTGAATTTCAAACCT

SEQ ID NO: 1375 GGTACTTTTTTTTTTTTTTTTTTTTTTTTAGTANANACATGGTTTCGCCATGTTG
 GCTGGGCTGGTCTCGAACTCCTGACCTCAAGTGATCTGTCTGGCCTCCCAAAGTGTTGGGATTAC
 AGCGGAAAGCCAACGCTCCCGGCGAGGGAACAACCTTTAGAATGAAGGAAATATGCAAAAGAACA
 TCACATCAAGGATCAATTAATTACCATCTATTAATTACTATATGNGGGTAATTATGACTATTTCCC
 AAGCATTCTACGTTGACTACTTGAGAAATGTTTGTCTGCATGGTGGANAGTGGAGAAGGGCCA
 GGATTCTTAGGTTGATCTATCTGTGGGTTATGACTTCCCACAATAGCCACCCCGGCCCCACCAG
 TCCTTTTATTGGCTCTGGATGGAAAATCCCTACCCATGTGATGGTCCCTGGTCTCTCTATAGTTTG
 ACCAACAGTTGACCCCAAAGGTTATGGNCTTACCGTTTTAATTATATCCACGACTAAGATACTG
 GAGNCCTGTATTCTNAAAAGTGTGGGGCTTGNCTATTNTNCCAAGAACCAAAATGGNCCTTCGN
 CTTAAAAAAAAGTTTGCTTACTTAGGGAAAATTCCTGCCNACCTTAANGAATAAAAGCTTCCT
 TAANGGAAAAAATNTAGAAAAGCTTGANAAAAGCNTGGGTGCCCTTGNAAAAAAAAGGG

SEQ ID NO: 1376 GGTACTAACTAGAGCCTGACTGAATAAGAGGAAAGAATGTCCCATAGTGTC
 ATTTGGGGGAATTGAAGTGTCTGATATGATGCCTGAACCTCAGCTACTTAGAATAGGAAAGTTAGT
 GCTTTAGACCAGTGCAATTTCAAACCTTAATGCACATGCAAAACACCCAGGGATCTTGTTAAACAC
 AAGTCTTACACAAAAATTAACCTCAAGATGGATTAAAGACTAAGACCTAAACCATAAAAACCTA
 GAAGAAAACCTAGGCAATACCATTGAGGACATAGGCATGGGCAAGGACTTCATGTCTAAAACACC
 AAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGCATCTAATTAATGAAAGAGCTTCTGCA
 CAGCAAAAGAACTATCATCAGAAATGAGCAGGCAACCTACAGAATGGGAGAAAAATTTGCAATCT
 ATCCATCTGACAAAGGGCTAATATCCGAATCTACAAAGAACTTTAAACAAATTTACAAAGAAAA
 ACAAACCCCATCAAAAAGTGGGCAAGGGATCCNAACAGACACTTTCTCAAAAGAAGACATTTAT

ATTGGCCCAAAAACATTCCGAAGAAAAGCTCATCATCACTGGGTCATCAGAAGAAGTGCCAACCC
AAAACCCCAATTGAGATTACCATCTTCATGCCAGGTAGAAANGGTANTCATTAAAGANGGAAAC
NANCNNATTCT

SEQ ID NO: 1377 ACCTATGTTTCACCTCCTGGAAATGAAGAGGAAGAATCAAAAATCTTCACCA
CTCTTGACCTGCTTCTCTGGCTTGGCTGACTGAGGAGGAGCCAGAACCAGCAGAGGTCACAAGC
ACCTCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTGGCTCAGGAGGAAGAGGAGGA
AGACCAAGGGAGAACCAGGAAACGGAACAGAGTGGTCATTCCACCCCGGCTGGAAAGCACCG
CATGAAGGAGAAAAGAACACGAGAATGAAAGGNAAAGTGGCCACCTANCTGAANAGAATGAA
CGGNTCNAGCACGAAATTNAGCGCTNACCCCNAGAAATATAAGGCGACTCTCNAGCTCTNANTTN
CCATTGNGAATTTTCCCNAAACATTNNAANTTGGGGGCATTANTTCCCCACTTTGGGGGCCACTA
CCCACCTTTTCCANAA

SEQ ID NO: 1378 GGTACGTGTGCGTAACACCCGAACCAGGAATCTNAGCTATGACCTTTTCACTT
AGCTACGCTAAATGTCAGTCCAAGATAAAAGAGGAGATTAAAGATAAAACTGAAGATTAAAGAG
ACTGTAGTAGTGACACATTCAAGTGAGGCTGTTAATCTAGGTAAGTGACACTAAGAACCTGAAG
AGACCTATGAACCTTTCCCTAGGAGGCCGTTTCCAACCTGGCCTNTNGACAAACAGCTGATCATCA
CCGTTTATAATGATGGGNTCACTCCGGAGCTTCGAACCTTATTCATCCTACATTAAATTGATCACCAC
GAATGGGTNGGCAAGACCGTGTACANACCTTCAAGGGAACCTCTCCTTTCCACAANCCCCCAANT
TTTTTNCAAAAGTCCCTCTGNTTTAAAGNCAAAAAAG

SEQ ID NO: 1379 AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCAAGAATTTTCATAAATTTGT
TTTCAGTGAACCTGCTTTTGTATGGTAGGTCATTAAACACAGCACTTACTCTTAAAAATGAAAAT
TTCTGATCATCTAGGATATTGACACATTTCAATTTGCAGNTTCTTTTNGACTGGATATATTAACAGT
TCCTCTGAATGGCATTGATAGATGGTTCANAAGAGAAACNCAATGAAATAAAGAGAATATTNATT
CATGGCGATTAAATTAATTTTGCCTAACTTAANAAAACNACTGNGCGTAACTCTCAGTNTGTCTG
CTTAACCTCCATTTNACATGAGGT

SEQ ID NO: 1380 ACTGCAGCTAAACCAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAA
CAACTAGTGCAACCAGTAAGTTGATCCATCCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCA
CAGTTACCTAAGTATCAACGTAATCTTCCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTT
GGACCAATTGGAGGTATGATGCCACCACAGCCAGGCATCCCACAGCAACAAGGAATGAGACCCC
CAATGCCACCTCATGGTCAGTATGGTGGTCATCATCAAGGCATGCCAGGATACCTTCCTGGTGCTA
TGCCCCCGTATGGGCAGGGACCGCAATGGTGCCCCCTTACCAGGGTGGGCCTCCTCGACCTCCG
ATGGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCACCTCAATCTAAT
AGGTTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCGGTCAATAAGGC
TTTCATTGTGACTTTAACAACATTATCTTNCACATACCAAGGAACCTATTGGGACATTTATTTTAC
ATTGGGAAAAATTATTTGGAATTAATAAAAGCANGGAACCTTTTCTGGAAGTTTGCCAATTTATA
CTGGGATGGGGTTCNTTTTTTTCATGGTTCATCTAGGGTTTTTAGAAATGAAATTTANNAAAATTGGG

SEQ ID NO: 1381 ACGCGGGCCTCTGGAAGCATGGAGACTGTGGTGATTGTTGCCATAGGTGTGC
TGGCCACCATCTTCTGGCTTCGTTTGCAGCCTTGGTGCTGGTTTGCAGGCAGCGCTACTGCCGGCC
GCGAGACCTGCTGCAGCGCTATGATTCTAAGCCCATTTGGGACCTCATTGGTGCCATGGAGACCCA
GTCTGAGCCCTCTGAGTTAGAACTGGACGATGTCGTTATCACCAACCCCCACATTGAGGCCATTCT
GGAGAATGAAGACTGGATCGAAGATGCCTCGGGTCTCATGTCCCACTGCATTGCCATCTTGAAGA
TTTGTACACTCTGACAGAGAAGCTTGTTGCCATNACAATGGGCTCTGGGGCCAAGATGAAGACTT
CAGCCANTGTCCANCGACATCATTGTGGTGGCCAAAGCCGGATCAGNCCCCAGGGTGGATNATGTT
GTTGAAANTC

SEQ ID NO: 1382 AATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACGCGGGGTCTACATGAACCA
GCAAGGCAGATGGAATAATGTGAAGCCAATTCGTCTTAATGGAACCAAGATTCTATGTTTGCA
TTGCAGTAAAAAATATTGGANATATTAATCAAGATGGCTACCCATATATTGCATNTTGGAGCTCCN
TCTGATGACTTGNGAAAGGNTTTTNTCTATCATGGATNTGCNAATGGAATNAAATACCATACCCAA
CACAGGTTNTTANGGGGTTNATCNCCTTATTTNTGNATNTNCAATTGNTGG

SEQ ID NO: 1383 AATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTATAAACTTTTATGCATTTTATTCAAACCAATTTTCTTTAAGTAAAAACTTAACAGNGT
CATCAAACCACTGATACAAANATTCCATTTTCTCTTGGCTTGGGGGAAAAAGGGCTTGGTTGA
NTNTCACCAGGTTTGGCAGGGACAACATGATATNCTGCTTGGCGATATTAACATACAAATCTANCT
GCCCTTTGTCTGNGGGGANATGTCCANTCGNCCACTGAAANGGGGANATGGNTACTGTCCGGCC
NGACNGGCNNAGATGGNAAATAGCGTTGGTGAGNCCT

SEQ ID NO: 1384 GGTACCCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGAACCTTTGG
GATTGATCCCAACCAACAACTGAACGCTTTGGTTCAGGCTGCTACAATGGAAGGAATTGGGGCAATT
GGTGGAACTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGCTGAATTTGCCCCAAACAAACGTCG
CGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAAACCTTAAAGAAGGACCCCTTTTGGACTAG
CCAGAATTCTACCCTGGAAAAGTGTAGGGATTCTTCCAATAGTTAGATCTACCCTGCCTGTGCT
ACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAACAAGTCAATTCTGTG
TGGTATATTGTTAATCAAGTTCGTGTGGTGCATTCTGAAGTCTCTAATGTGACTGGTTGAAGG
GCCTGGGGAAACCATGGCAAAGTGGATCCAGTTAGAGCCCATTTAATCTTGATCATTCCNGTTTTT
TTTTTTTTTGGCCATCTTGNITTCATTTGGCTTGGCCCGCCCCGAAACGGAGTTTTACTTTNTCNC
CCAGNCTTGGAAAGTGTANATGGCNATGATCTCNGGTTNACTTGCAATNTTTTTGCCNTCCCGGGNT
TANACTTTGTNCAAGTTGNNTNTTTAAACTTCCTNACCCTTGGGATTTANCCACCTTCGGGCNCCA
AAA

SEQ ID NO: 1385 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGNCAGCTTTTTATTGAAC
ATGTTATAAANAGGTTTAGTCAAAAAGACCAAAGCCCATGTCATCATCANACTCCTCGGATTCTT
CTTCTTTGCTTCCACTTTCTTCTCCTCAGCTGGAGCAGCAGCAGTGGAGGGGGCAGGACCTCCTG
CTGGTGCAGCACCAGCTGCTGGAGCAGGTCCACCGGCCCCCTACATTGCAAAATGAGGCTCCCAATG
TTGACGTTGGCCAGGGCCTTTGCAAACAAGCCAGGCCAAAAGGCTCAACATTTACACCGGCTGCT
TTAATGAGGGCATTGATCTTATCCTCCGGGACTGTCACCTCATCGTCGTGCAAAATGAGGGCCGAG
TAGATGCAGGCGAGCTCNGANACAGAGGCCATGGCNCCGGGCCANTGTAGGGCTTGGCGCTGCC
GGACCCCGGTGCTTATTCGCGCGGATNAAGTGAGGGCCTCACCCCAACCNAACCTTATCTTTTGG
GAAGGACCCACCCCTTTGGCNGGAAANCTTGAGGAAAAAGGGCCCCCGCTTTNCTGCCCCGGC
NGGCNGTT

SEQ ID NO: 1386 GGTACTGGATGAAGCTGACGAAATGTAAAGCCGTGGATTCAAGGACCAGATC
TATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTGTCTGTCAGCCACAATGCCTTCT
GATGTGCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAGAAGGAAGA
GTTGACCCTGGAGGGTATCCGCCAGTTCTACATCAACATGGAACGAGGGGAGTGAAGCTGGACA
CACTATGTGACTTGTATGAAACCCTGACCATCACCCAGGCAGTCATCTTNATCAACACCCGGAGG
AAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTTGTATCCGCNTGATGGAG
ATATGGACCAANAAGGAACNAGACGTGATTTATGAAGGGGAGTTTCTTTCTNGCTTCTAGCANA
AGTTTTTGATTNCCANTTGAACCTNGCTGGNCANAANCNATTTGATGTTGCCAGCAAGGTNTNTT
TAATTCATCAACCTNTTGACC

SEQ ID NO: 1387 GGTACAAAGAAAGTTTTAAGTCAAGGCCTCACCAATCCTACAGTATTAGTA
TTGTGTCTCAATTCTCAAACTAACTTTTAAAAAGCTTAACTTAACCTAANGGATTTTAAATGAA
AATATAAACTAGAATGAACAAACATGAGAAATATTTCTTTGAATCAGGGAGCTAGCACCTTTGAG
TTTTCCAAAAGCACGTCTCCCCAGTGTGTTCACTGTGATGTGGTGTAAGATCCACATTTAACA
TACTTAACTACTTAACTTAGATAACATCACTGAAAGTATACTACCAAATGTTAATTGAGAAA
AGCTGAAAATAGTTTTAGTTTACTCATTATCACATGCTAGAAGAAAAATTTGCATGAGAAAACACT
GAAGAGGTAATTTTTTAATCCAGATTTTTTCCAACTCATGGTGCAAAATGGGTCCCCCAGCTTCC
TCTATTATAACTGCTCTTAATTGCTTGTGGCTGCCTGGGAAAAATGATTTGAAGTAACCTCAAAT
GTNCAATAACAAACTTNGTCAATAGCCCCCCCCGTACCTGCCCCNGGCNNGGCCNNTCGAAANG
GGCGAATTTCCAANCACTTGGCGGGCCGTTNCCTAGTTGGAATTCNNACCTTCGGTACCAAA
NCCTTGGCGTTNATTCATGGGGCAATNANCCTGNTTTCCTGGNGNNAAAAATTGNTTNTTCCGNT
CNNCAA

SEQ ID NO: 1388 ACTACCCAGGCAGGTATGGAGGGGCTCCCGGAGGGTCTGCGTTTCCCGGACA
AACTCAGGATCCGCTGTATGGTTACTTTGCTGCTGTAGCTGGACAGGATGGGCAGATAGATGCTGA
TGAATTGCAGAGATGTCTGACACAGTCTGGCATTGCTGGAGGATACAAACCTTTTAACTGGAGA
CTTGCCGGCTTATGGTTTCAATGCTGGATAGAGATATGTCTGGCACAATGGGTTTCAATGAATTTA
AAGAACTCTGGGCTGCCTTTGGTTTTTTTTTNTCCTT

SEQ ID NO: 1389 GGTACGCGGGATTTCGAGTAGCGGCTCTTCCAAGCTCAAAGAAGCAGAGGCCG
CTGTTCTGTTTCTTTAGGTCTTTCCACTAAAGTCGGAGTATCTTCTTCCAAAATTTACGTTTGGT
GGCCGTTCCAAGGAGCGGAGGTGCGGATGGATCTTGAAGGGGACCGCAATGGAGGAGCAAAGA
AGAAGAACTTTTTTAACTGAACAATAAAAGTGAAAAAGATAANAAGGAAAAAGAAACCACTGT
CAGTGTATTTTCAATGTTTCGCTATTCAAATTTGGCTTGACAAGTTGTATATGGTGGTGGGAACCTTG
GCTGCCATCATCCATGGGGCTGGACTTCCTCTCATGATGCTGGTGTGTTGGAGAAATGACAGATATC
TTTGCAAATGCAGGAAATTTAGAAGATCTGATTGTCAAACATCNCTAATAGAAGTGATATCAATG
ATACAGGGTCTTCATGAATCTGGGAGGAAGACATTGACCAGGTATNCCTATTATTACAGTGGGA

ATTGGTGCTGGNGGTGCCTGGTTTGCTTGC

SEQ ID NO: 1390 GGTACATTAACCTCAAAAAGTCTTTTCAATCTGAGGATCTTGTGTAGCAAACAA
ATCTGATGTATAGACTACACCAGCATTATTTACTAAAATACTAACATCTCCAATTTCTGCCTTCACC
TTCTTTGCAGAGCTGTAAATATCTTCTCGTTGCTGCAGTCTACCACAAAGGTATGAACCTTGCCA
CCCAGTCCCTTGCATTTGGCAGCTGTTTCCCTCCAGTCCATGCTTATTTATATCCCAGAGAACCCAGCT
TGCTTTTAAGTTTAGCAAATTCATAGGCAGTCAGTCTCCAATTCATGCCAGCTCCTGTAATCA
GCACCGATTTCCGCCGTGACTGATTTTCTCCTCTTAGGAATAAAAAGCTTCACGAAGGACTCTANG
GAGCAGACGATCAGTAACCGGGAGAAGCAGGAGGATGTCCAGAAGAAATTCATCCCTTTTGTGG
CTGCNAGCGTTTGGGTGTGTTTTTTTTTTTTTTTACCACCTCTAAACTGCTTTTAAGAGGGTAGCTTC
GATCTAA

SEQ ID NO: 1391 GGTACCTAGGGATGATTGGGAAGAAAAAAGGCACCTTTAGAAGAGATAGTTTT
GATGATCGTGGTCTAGTCTCAACCCAGTGCTTGATTATGACCATGGAAGTCGTTCTCAAGAATCT
GGTTATTATGACAGAATGGATTATGAAGATGACAGATTAAAGAGATGGAGAAAGGTGTAGGGATG
ATTCTTTTTTTGGTGAGACCTCGCATAACTATCATAAATTTGACAGTGAGTATGANAGAATGGGAC
GTGGTCTTGGCCCCCTTACAAGAGAGATCTCTNTTTGAGAAAAAGAGAGGCGCTCCNCCAAGTAGC
AATATTGAAGACTTCCATGGACTCTTACCGAAGGGTTATCCCATCTGTGCTCTATATGTNATTTGC
CAGTTCAATTCTAATAAGGAGTGGAGTCAACATATCAATGNGAGCANGTCACAAGTCGTCNATGCC
CCTTCTCTTGAAATCTACCCANAATGGAATTCTGAC

SEQ ID NO: 1392 GGTACTTTTCAATCCAAGAAAAAATAAACTGAGACATGGTCATGAGTTC
AGGATTATATATATTACAATTTGCCTTGTTATAATACATTTGTGGCTTATGATAAAAAATAACTCAG
GGACATATGGAATTCAGCTGATTTGCGTAACTGTCAACAAGAAAAAAGCATTAAATGCATTTCT
GAAATAAGTATTTTCATTAATTCAGAATCTCAAAACAGCATTAGACCTTGCTTTAAAAAAA
ATTTAGTTCAACACTAAGCTAGCTAAATAACCTTCTTGAAGGTTTAAACACAATTGATATAGAAA
ATGCTTTCCCTCTAATCTCAACTTTACATAAATGGAACAGGTGAGGAAGAAAAGGTAGACAATTC
TTAGCAGCATATATGGCTAAATCCATCAACCACCTTAAACTAGAATGTCCATTATTGACCCCAT
AAAAAGAACTGGGGAAATATCAAAAATTACTGATTTCTATAAACCAAAAANGACATCAATTTTAAGG
GTTACAGTTAGTTAAAAATATTTTGAGACACTTTAAAAAACTTTTAAACCCATAAACCTATAAAGA
ATTCATCTTTTTCATTTNGTAAGGAAAGGAAANGCCCTANCCACGAAAAGANNTTTTNAANCNTA
AACTNGATTTTTTAAATTCCTCTTNGAACNAANCCNAAATGAAAAAATTTAATNGGGTGGATT
AA

SEQ ID NO: 1393 GGTACGAGGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAA
CTATCGACAGGCATGCCTCGGAGATCACGTTTTGATAGACCACCTGCCCGACGTCCCTTTGATCCA
AATGATAGATGCTATGAGTGTGGCGAAAAGGGACATTATGCTTATGATTGTCATCGTTACAGCCG
GCGAAGAAGAAGCAGGTACGGTCTAGATCACATTCTCGATCCAGAGGAAGGCGATACTCTCGCT
CACGCAGCAGGAGCAGGGGACGAAGGTCAAGGTCAAGCATCTCCTCGACGATCAAGATCTATCTCT
CTTCGTAGATCAAGATCAGCTTCACTCAGAAGATCTAGGTCTGGTTCTATAAAAGGATCGAGGTAT
TTCCAATCCCCGTCGAGGTCAAGATCAAGATCCAGGTCTATTTACGACCAANAAGCAGCCGATC
AAAGTCCANATCTCCATCTCCAAAAAGAAAGTCGTTCCCCCATCANGAAGTNCTCGCAGAANNTG
CAAGTCCTGAAAAGAATGGACTGGAAGCTTCTCAAATTTACCCCTTTATGGGAAAAAGGTTATTT
TTGGTTTINCCATTTATTANTAAGGGGATTTNTGNTGTCTGTAAANGTNTACCCTTACGGAAAAAG
AATATTTCNACCCNTTTTAATCANAAAATGGGATTCTNTNGAATTTACCTNTGTTTAAATTTCCCN
CNNGTAAAN

SEQ ID NO: 1394 GGTACGCGGGGGTCTTGTCCAGTGAAACACCCTCGGCTGGGAAGTCAGTTC
GTTCTCTCCTCTCCTCTCTTCTTGTGTTTGAACATGGTGCGGACTAAAGCAGACAGTGTTCAGGCACT
TACAGAAAAGTGGTGGCTGCTCGAGCCCCCAGAAAGGTGCTTGGTTCTTCCACCTCTGCCACTAAT
TCGACATCAGTTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCGTTTGCCTGCG
CCCAACTCCCAAGTGGCAAAAAGGAATTGGAGAATCTTTAGGTTGTCCCTAAAGATTCTGAAA
AAGAGAATCAGATTCCTGAAGAGGCAGGAAGCAGTGGCTTANGAAAAGCAAAGAGAAAAAGCATG
TCCTTTGCAACCTGATCACACAAAATGATGAAAAAGATAAGAACTTTCTCATTCTTTTGAATA
ACGGCTCCTTGTACCCTGGTATTCTAGAATGTAAATTTACATANATGTNGTTGGTTCCAANTTTAG
CTTNGTTTNAACAGGCATTTAATTNAAAAAATTTAGGGTTTAAAAATTTANGATGTTNAAAAAGTA
TGNTTGTGNAANATTTGGNAAATTTGTAGGAACATAAATTTGATGGNAAACCTTNACCTTANNTATGT
CAAATTTAATGNCATTGTTGTGGNNTTCTNNTTCCCCAAAATTAAGTGTCTTNTCTTTTGTNTT

SEQ ID NO: 1395 GGTACTTTTTTCTTTTTTTTTTTTTTTTTTTTNGGCTTTTAGTAANAGGTGCCTAT
GAAAGAGGNCAATGGAGATCTAGAAAAATACAAGTGATGGTTGATTCCCCATTGTTCCAGTTAT
TAATATTAGTTTTACCAACATACAANAAAATCTTTTTTCTTCAACACTTGTATAGCAGATGTTTAT

AAGATTCCAAAATTTTCATAACATAAATTAATTACCAAGAATTGTATTACATGAGATTTCTCCTTA
GCAACTAAGTTCTANTTTCTATTTTGTCAATGTGATACNTAATAAAATCTATACATATTTTGA
CTTGATTCTCCCCGCGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGT
AGAATGCCCGAGTCCCAACCTGCTGCTGCTCCTTCCTTTGACCTGACTTCGNCTGAGGCCAG
CCTGCCCGAAGCTGACCTTTACCTGAGGGCTTGATCTTTCAATTGGAAAGTNTGCTTTNTC
CTTTANCAACCCCCCTCCTTCCTGCCTNTTTNTNANCAAAACTTGTNTCTGCCTTTTCCT
GGGAGAATTCCAAGCTTGGCCTAGGAANGCTNAAAAACCTTTGCAAANAACNTTTTNAAG
GGGAATGGGGANNCCCNATGCNTAATGGGTNTTTTAAAAANNCATNGNTGGTGAAAAA
AAAAAATACCATTANCCACCTTNTTTGA

[illegible]

SEQ ID NO: 1397 ACCCTAAAACCTAGTATCTTTTTCTCTTCTATGGAAAAATCCGAAGGTCTAAAC
TTGACTTTTTTGAGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTT
AATTATTTTAAGGAACAAATGAAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCAGC
ACTTTGGGAGGCTACGGTGGCGAGATCATCTGAGGCCAGNAGTTNGNGACCTGCATGGCCAANAT
GGAAACANCCNGTTTTTANAANANTTTTAAAAATNNNCCTGCTTGGTACC

SEQ ID NO: 1398 ACAAAGACAGCACAAGAAAAAAACAGATTTCATAAAAAATAGTGATTCTGGTT
CTTCAAAGACATTTCCAACAAGGAAAGTTGCTAAAGAAGGTGGACCTAAAGTCACATCTAGGAAC
TTTGAGAAAAAGTATCACAAAACCTGGGAAAAAAGGGTGTAAGCAGTTCAAGAATAAGCAGCATG
GGGACAAATCACCAAAGAACAAATTCAGCCGGCAAATAANTTCAACAAGAAGAGAAAAATTCCA
GCCAGATGGTAGAAGCGATGAATCAGCAGCCAAGAAGCCCAAATGGGATGACTTCAAAAAAGAAG
AAAGAAAGAACTGAAGCAAANCAGACTACTTCAGTGTTAAACCNACTTTTGACATTTTTGGTTN
GGGCAANCCAGATGTGGGGANATTTTAANAAGAAAANAGTGTGNCTAANAAAATNGAGTAANTT
TNACGAGNGNTTTTNCACANGTTGTTCNNGGGAAATTTATAACNTATAGCATTGGCCCCCGATTCA
NTT

SEQ ID NO: 1399 ACTCGTATTTGAGCTTCAAAGTAAAAATAAAGCAGAGGACAAACGCCTGTCA
CAGCGTGGCAGCCCGGTTTCATTTGGTAACAGAACAAGTCTCACACGTCGGCTGAGCCACCGGAG
AGAAGCACGCAGGCCAGCTTCCTTCTGAACACAGCCAGGCACCTGTTCAAAGCCTCTCTGGTGG
TGGCGGTGGACCCCAAACCCACGGGTGGAAGAGCCTTTGGGAAAGCAAATTGATACGCTGATT
GCAGTCCTTGAAGAAATCACTTAGGGTTAGTTTAATAAACGAACATTAAAAAATCTTCCAAAAATT
GCATTCAAATGTATTTTACACTTTAGGCAGTTCCTTAAGAAAGGGAGAAGTGCAGTTTCTTTAACT
TTACATTTTAAAGGTTTATTGGCCACATTAATCTTCCTCACAAAAGTTTTAAGTTATNTATAAGTTC
TTAGANTGTCAAAGAATAGAAAAAACTGACTAACTTTAANGGGCGGGGGGAAGCAGCAAAAA
AACTTGGCATTAA

SEQ ID NO: 1400 ACTGGTAAAAGAAAAAAGAAAAAACCCACAGAATCACAGAATTCATGTTCTC
ACAGTAGCCAGAAGCTAAAATAATGTGCTTCTTTATTGCACGTCAAACCAAGAAAGGTATAAAAG
CCAATGATTCTCAATCCAAATGTGAAAGTCAGGTCACCTCAACTGGATTTCGGAATGTGCTGATT
CCATTGGACTCAAGTTGATCTCACTTATTTCTGAGTGCCGGGAGGTGAATGCATCAAGGATAGTG
ATGAAGGTGTGAGACTTTTCGACATAATAAACTTGTTTAAAAGTTTCTGTCC

SEQ ID NO: 1401 ACTTTGCAAATTATCTAGTTAATTGTCATCATGAATCAAATTCTTAGCTTCTA
AAGGGCAGACACAGTCTTTAATTGCTTTTAGATAGGCACTTAAGAAATGCTTTTGATGAGGAGAA
AACCCCAAAGATTGTGAATCACTCTATTAAGTCCAGGGAAGAATGAGACTCTCAACAAAGTAGCT
TTCCAGAACTACCTTCCAGTGCCAAGAAAGTAAAGTAACTATTTGCAAGCTCTTTCTGGTAATAAGAA
TGAGGGAACTCAAAACAAAAAATGCTCTATTATGCAATTAAGTAAAGTAACTTAGGTAATCAAGT
TTCTTTTATCAATCTGTGCAATTGAAATTAACCGGTATTTTTCATACCTTTTCAAGAATAGTTCCA
ATCTTNNACTAGACAATGGTTGCAATTNTTNTCNTATNTTACCTNTTCTNTTATCCACCNNGCAAAA

CNGGTCCTTTTTAAAAAAGGGGAGCGNTGTGGGGTGAGAAAAATCTCATAAACCCCTCAGCAAAA
GTTAATATTNTGGTTAATT

SEQ ID NO: 1402 ACGCGGGCTAGATACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGA
TTGCTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGTCTAAAGGTG
CGGGAGTATGAGTTAAGAAAAACAACCTTCTCAGATACTGGAACTTTGGTTTTGGGATCCAGGA
ACACATCGATCTGGGTATCAAATATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGT
GCTGGGTAGGCCAGGTTTCAGCATCGCAGACAAGAAGCGCAGGACATGCTGCATTGGGGCCAACA
CAGAATCATCAAA

SEQ ID NO: 1403 ACTGTCTCTTTTGAAAAAGTTCTTGATCCCCAATGCTCCACAAGCAGAGAGCA
AAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGTG
ACAAGAAAGGGATTGTGATCAGTCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAA
GGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACCTCTCTGTGTCTATTATGA
GATTCTGAACCTCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAGCCATTGCTGA
ACTTGATACATTAAAGTGAAGAGTCANCNAAAGA

SEQ ID NO: 1404 AACGCGGGCAGCACCTCCTTGATTCTCAGTTTTGCTGGAGGCCGCAACCAGG
CCCGCGCCGCCACCATGTTTCGAAATCAGTATGACAATGATGTCAGTGTGGAGCCCCCAGGGCA
GGATTTCATCAAAATTGAATATGCAATGGAAGCTGTAAACAAGGTTTCAGCCACAGTTGGTCTGAAA
TCAAAAACCTCATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCAGAA
AAAAATTCTCCATGTTGACAACCATATTGGTATNTCAATTGCGGGGCTTACTTGCTGATGCTTNAC
TGNTATGTAATTTTATGCNTNANGANNNGTTGGGATTCCAAANTTGGAATCNATANGACCANTGG
CCTGGGTTTNGTCATGGATTCTTTAATTNGGAA

SEQ ID NO: 1405 ACATAAAGTAAAGGAGAACAGCTATATTGTCCTTTCTATAAGCTTGTCACTGC
AAAAAGTTGCCTTTTGTCTGTCAGTTTTGGATAGAATATAATTGATTGGTTTGTACTTGGACTAAC
AAGGCAGTAGATTTGCCTGTGTGGAATTTTTTCTCTTTTCTCTTTTGTCTTTTGTCACTTAT
CAGAAATATTTGATGCGTGCAITGTTGAAAAATACTGGATACATGCTTGTGCAAGTTGTCGTATT
AAAGTAATGCCTTTCCCTNTTGTCTTTTGGCAAATGTTNATNCACAAGNGTTTTGGACTTACTTG
AANAATTTACTGAAGCCCTNTGGGGACTTAATTAANACCAAATTCNACTTCCCTNTGTTGGGATNN
GAACCATTTCCATTANCAACCAGGAAAAANACNATTGCNTTCCCATTTANGTNTGNTNTTTTTGT
TTCCTTAAACTT

SEQ ID NO: 1406 ACAATNAAGGAATGGGGAAGGGGGAAATGAAAGAATAGAGAAAACTATACG
GTAGTAGTCAGGATGTGGTGGAACCAAATTGCAGTTTTCTAATTGAGAATGTAATCTTGGTCTTTA
AAGAACAGAGTTCTGGAGTAAAGAAGCAGGTTCCCTTTTTCAGTANACACCTCCCGTCTGCTGTTG
GAACACATCAATTGTATCTTCATCCTCCATTTCCAAGTGTGCCAGGTGTGTCTGTTTCATTGATTGG
TTGCCCGTCAAATCNGAATCTGATCTGCCTCATTGACAATCCCTGTGCGTCACAATAGGCTTTTATT
ANTTTACTTAAAGGGCGAATGCCTTTTAAATCTTAAACCGGACCCACATAAACNTCNTTGTCCCNCC
CCTTTNAATATAANTAT

SEQ ID NO: 1407 ACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGGGGTTGAATAATCTTTAATATTACAC
ATAAACCACACTAAAATGCCTTTCAATAAGTAAAAANAACCATTTTAAATACAGGGAATTATAAT
TAGATTGGCATANTTAAGGCCAAAACCTATAGACATNGCTACCTTATTTATCTTCAACCCTTGCCCTT
AAGAGGCAAATGAACATGAACNCAAAACACAGGTGAATCTTGCTTGGTTCTAANACATGNGAAGC
AATTTCCCCAGTNTTTAAATNTATTCGCATNACCTGTTNTNTAAATCTAAATATNAAACCAATCTTC
ANTTATNTTTTAAAATGG

SEQ ID NO: 1408 ACTTTGAATTTGAGAAGTGGGTGATCCCTCTAGGCTTCTGGAGGTCACATT
TAAGCTAGACCTTGACAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGG
GACAGACAGTTATGGGTTCTGGTCCCACTTTTATCACTTACTANTTGNNTGACCTTGGGCAAGTC
ATTTGACCTTCTGTGCCTCAGTTTCTTCATCTGTAAAATGGGGCTAACAATATTACCTACCTCATAG
GATTTAATGATGTCAAGCTCCTCACTGGNGGCCTTATTCCTTCGTGGAGCCCCCTAGGTGCCGACC
CCT

SEQ ID NO: 1409 ACTTTTAACTAGTAATAGAATTTTCTGAAGAATATCCAAATAAACCACCAA
CTGTTAGGTTTTATCCAAAATGTTTCATCCAAATGTGTATGCTGATGGTAGCATATGTTTAGATAT
CCTTCAGAATCGATGGAGTCCAACATATGATGTATCTTCTATCTTAACATCAATTCAGTCTNTGCTG
GATGAACCGAATCCTAACAGTCCAGCCAATANCCATGGCAGCNCAGNTTTTTNANGAAAAACAAAC
CGAGAATATGAGAAAAGAGTTTCGGGGCATTTGTTGAACAAAGCTGGAATGNTTCATTATTANACC
ACCGGGCNTGTTAATCCTTTTTCNATCATTGGCGGGGNTTAAANTACCCCTNCNTTAAAAAGNGT

AANAAATTTNAAGTGGCCCCAGGTTTTAAGGNTTTTGNNTAAAAAAGTCCNTTCT
ATTANAAACNNAAAAANCTTGGGGTATTATGNTTAATGA

SEQ ID NO: 1410 ACGCGGGATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGT
ATCTCCCTTTGCCAAGCCATCCTGGATGAAACCAAAGGAGATTATGAGAAAATCCTGGTGGCTCTT
TGTGGAGGAACTAAACATTCCCTTGATGGTCTCAAGCTNTGATCAGAAGACTTTAATTATATATT
TTCATCCTATAAGCTTAAATAGGAAAGTTTCTTCAACAGGATTACAAGTGTAGCTACCTACATGCT
GAAAAATATAGCCTTTAAATCATTTTTATATTATAACCTCTGTATAATAGANANAAGTCCATTTTTT
TTAATAATANGTTTNNCC

SEQ ID NO: 1411 ACNCGGGGCGCGTCTTGTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTT
GTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAATGCTAAAATTGGGCACCTGCCCCAAC
TTCNAAGCCACAGCTGTTNTGCCAGATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGA
AAATATGTTGTCTTTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACTGGNNATCATTTGCTT
TCAGTGATNGGGCANAAAGATTTTAAAGAACTCAACCTGGCCAAAGGAATTGGGTGCTTNTGTN
GGATTCTTCNCTTTCTT

SEQ ID NO: 1412 ACTCCTCATAATCCTGATAGGTATCAGAAAACTCAGACGTATTTCCCTATGA
CAGTCATACCAATCATCTTCTGGGCTTCAGTCTGCAATCTGAAGGAAGACCGCTGGGTAGGTTT
CTCCGGCTCTGCTTAGCTCTCTGGCTAGCCCCCTCTTAAAGTCTTGTCTTCATCTGGATTCCAGGTA
GATTCTCGATATTTCTCTGGATTGGGGGTGTCACTTCCATTTGGTGGTTGTTCCAAAGAAATACGAT
CATCCACAGGCGTTNATTCAGAGTCTTTCAGCTGATTATCAGAAGACCTTCCAAGGATGNCTTATT
TTCTTNGCTNTGGGAATAAGGTTCTTGGNCTGNAAAATTANTGNCNTTTCNNAGNCNTCCANNAT
TGGCNTNCANCTTTCCAAACCNGGGGACNTTTTGTTCATAACTTTTTT

SEQ ID NO: 1413 ACGCGGGGGAGTCACTCCCAACCAGGACACAGCACGGACATGAGGGTCCC
TGCTCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCTCAGGTGCCAGATGTGACATCCAGATGACCCA
GTCTCCATCCTCCCTGCTTTCATCTGTGGGAGACAGAGTCACCATCACTTGCCAGGCGAGTCAGGA
CGTCGGGGACGATCTAAATTGGTATCAACAGCGGCCAGGGAAAGCCCCCTAAACTCCTGATCTTCG
ATGCTTCCAATTTGGAACAGGGGTCCCTTTCGAGGTTTCGCTGGAAGAAGGGTTTGGGACACATTT
NANCGTTTCATNATTANCAANGC

SEQ ID NO: 1414 ACATTGGTGATCGGAGTATAGTTGGAGCGCTTTGTCATGATTTCCAGGTTGGC
TTTGTCCACAGCTATGTTGGCCAATGCACCTTGAGCCTCAAAGCTGGCAAATCGTCCAAATTCTTC
AAGCCGCCAGACCGTCTCCTTCTTTGCCATATCCACATGGAAAATCTCATCACCATCAAAGTCAAA
CATAAACTCGCCTGATTGGTCAGGATTCAAATAGAACTCGGCCTGGATGATCACATGTTCTTCTTT
GATAGCCCATGATTCCTGAGCGCTCATCAGCACAGCTATGATGAAAAATTCTAGCACAGGGACTC
CCTTATGGNCATTTTTTTTTTGGGGCGCTCTTNGTGGGNATTAANTNAAACNCNGGGGNTNTGGCNT
ACCNGACNTNTTNNATGANAA

SEQ ID NO: 1415 ACAACAGTTGATGATGAAGAACACGATGATAAGGAAGAAGAGGAGGAGGAA
GATGATGACTGCTGGCTTGAAGACTTGTTGTTGTTTTGCTCTTTGACCACTCCGTGAGTCGGCTG
CTGATGAACTGGCATTCTGTGTTAATGTTGTCATAAGTGCCGAAGATGATGAATAGCCAACTGTTT
CCCTGGCCATTGAAAATCTTTTCCCAACTGAAAGTCATTATTCTTAAATGCTTNATAACTGGCTT
TAAACTTGATGTTNTTCGTCCCTCCTTCATCTGNCTNTATCCTGAACTGTTTGATCAGCTGCCNNTG
GTTATTNCCCCCNCCANTTCTTNAAGNTTACCNAACCNATNGTTTNGGNTCCCCANGGTTGGG
GNGGAAATNCCTTTNTAGGCNTTTNGTAA

SEQ ID NO: 1416 ACTTGATTTTGAACACAGCACGAAAACATTTTGGAGCTGGTGGAAATCAGCG
GATTCGCTTACACTGCCACCTTTGGTATTTGCAGCTTACCAGCTGGCTTTTCGATATAAAGAGAA
TTCTAAAGTGGATGACAAATGGGAAAAGAAATGCCAGAAGATTTTTTCATTGCCCACCAGACTA
TCAGTGCTTTGATCAAAGCAGAGCTGGCAGAATTGCCCTTAAGACTTTTTCTTCAAGGAGCACTAG
CTGCTGGGGAAATTGGTTTTGAAAATCATGAGACAGTCGCATATGAATTCATGTCCCAGGCATTTT
CTCTGTTNTGAAGATGAAATCAGCGATTCCAAAAGCACAGNTNGCNTGCCATCAACCTGGTT

SEQ ID NO: 1417 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
AGGTTGAAGTGTGGTTCANGGCCAGTGCAATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGA
TGCAAGTCATAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAANCGGNCTG
CCCTGGAGGTGGTATCAANGGTTCCACAGAAAAAANTAAAACCTTNNCTGCTGATGAAGATGATGA
CGATGATGATNANGANGATGANTATTGAAANATGATGATTGATGA

SEQ ID NO: 1418 ACAGCTTAAACCACAATGGTATAAATCTTCATTTTGTAAATTAATAATTTCTTG
CATAACAATGTTTGATATTTGCAAACAAACAACATTTTGGGAAGCATTAGATTCAGTCCATAGATT
CTGTGACAAAATTAACACAGTCAGTCTGTGCAATGAAATTGATGTTGTTGGAGTTCTATGTGTGT
GGCATTTTCATGTTGAAAACAGATGGTAGTGCTCCTAGAAATATTTCTTCTCTAGCTTATGTGCTTT
GGAACACACATGTATAACCAATGACTGACTCTGAAATATCAAGCACTGTGGGGTGGCTGGAAGG
TAAAGGNCTAAGCTTTGTGAAACNCTATCNTATANAATC

SEQ ID NO: 1419 ACATGTTTCTGCTAAAGATAAAGGCNCAGGACGTGAGCANCAGATTGTAATC
CANTCTTCTGGTGGATTAAAGCAAAGATGATATTGAAAATATGGTTAAAAATGCAGAGAAATATGC
TGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAATATGGCTGAAGGAATCATTAC
GACACAGAAACCANGATGGAAGAATTCANGGACCNATTACCTGCTGATGAGTGCANCAAGCTGA
AAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTTGAAAAGACAGCGAANCAGGNGAAAATNT
TNTCANGCANCTTTCTNTTCTTCNNCANGGCTTATTNNTANCTGGTNCAAAATGGCTTNNANAATA
TTGGCTNCTTACCAAGANGGCTCTGGAANTTTTGNCCNTGGGGNACNAAAGGNAGATCANANGG
GGGGAANAACCCGNTTTTATTTGCNGANNTTTTGAANCCCATANAGACACCNTTTGAANCTTAGG
GGTGAAGNACTNNCTGA

SEQ ID NO: 1420 ACCGTTTTCAAGATAAAATAACAAAAAAGAAATACATATTTTTGTTATGAAA
TACCTATACAAAATTTTAAAAATTACACCATCTGAGCTGCCAAAAAAGGTTTAAAAAGTATCCATT
TTTCCCACATACATAAACTATCTCTCATCAGTAGGTCCAAGGGAACCTTGGGGGATTCAAAATATCC
CAGCACTTTACGGAAGGGAGGAGGATAAAAAATCCCTTCTGCTTTCTCTTTACCCCAACATAAGA
CAAAAACAAAGGTGCTATGTTTACAGTAGTGTATTCTACTTATTACAAACAACTGANATTAAAAA
AAAAAAAATNCACCCCGNGNCCNTTNGNGCCTTNACTNGNTTCCGGGTNAATNAAGGNNCTTT
CTTGGGAAA

SEQ ID NO: 1421 ACAGCAGCAGCAGACACGCATCGCAGAGCTGGAGAAGACGTCAGCTGAACA
CAAACACCAGCTGGCGGAGCAGAAGCGAGACATCCAGCTGCTAAAGGCATACATGCGTGCAATC
CGCAGTGTCAACCCCAACCTTCAGAACCTGGAGGAGACAATTGAATACAACGAGATCCTAGAGTG
GGTGAACCTCCCTTCAACCAGCAAGAGTGACCCGCTGGGGAGGGATGATCTCGACTCCTGATGCTG
TGCTCAGGCTGTAATCAAGCGCTCCCTGCTGGTAGTGGCTGTCTGCTTCTATTGTCAACGAAG
TGATTGAAAAATGCCACGANNCGTAGCTGGCCCATGGTCTTGCCCACTATAGAATAAACANA
TGACCCGCGCTCTTTTAAGACCTACTTTGGCCAANCCTTCTTGCCAAGCAGGCTGTTGTNCNNG
ATGGCCTGTGATAACC

SEQ ID NO: 1422 ACTTGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
GGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCATCCCTGC
AATGATTAAACACCAAGGGAAGGCTGCCTTCCCAGTCTGTGACCAGCGCCGGAGTTTGGGTCCA
CGGATAAACGCTGTCTTTTTTGTCTCTACCAGAAAATGAAAGGAATTGAATAAGAGAAGGGAN
AGATTGNAGTGTANTGCCAANATTGAANGGANAAAGTGGTTGTGGGAA

SEQ ID NO: 1423 ACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCA
GATTTGGATATGTCCTTCATATTTGATTGGATTTACAGTGGTTTACAGAGTGTGCTACAGTTTTT
GATTATATAAGAAAACCTGGTAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTG
CTACACATGCTAAAAGATGACAGACTTGGACAACATGTCCCAACATTACATCCCACTTCCGAAGA
ACTGACCATTGCTGGCATGACGTTTACAACCTTTGATCTGGGTGGACATGTTCAAGCTCNAANGAN
TGTGGAAAACTACCTTCTGCTATTCAANNCGATTTGTTTTTTGGNGGATTGGGGCCAAACCNCA
AAAGGCTNTTANAGTCAAAAANANAANTTTGGTTCCNTATGANAGATNNAAACCCTTTGCTTNT
NNGCCNNTACTGATNTTTGGAATAAANCNNACAGACTTGAAACCTTCATTGGAAAATAGGTTGCN
AGAGATGTTTTGTTTTNTNTNGNTCAGAACAACAGGAAAAGGGGATTTTTN

SEQ ID NO: 1424 TAATTNCGCCCTTACGCGCTNGTCNNNGGCCNCGCACGCGGGGGCNCCCATG
GANAGACNAGGCTACCATGAAGGAGCCNANCGCANACCCTGANTCCGTACCCATGGATCGCAG
CGCGGAGTTCAGGAAATGGAAGGCGCANTGTTTGAGCAAAGCGGNCCTCAACCGGAAGGGCAGT
GNTGACAAGGATGTGGTATAGCTTGTGCNGNTTCTGAACATGCGAGATCANTTTTTACCAACCANC
TCCTGCGCTGGCCGNATNCTACTCCTTGNCCGGGGTATAAATGGTTTTGAGGNTCATAAACA
AGTNGCTGGCTACTGGTTACACACAAACTTTGTGTAAANANCATGATGTNGATTGTANCTCTGAAN
AAACNAANTGGGGGNGCAACTNTNAAATTTGAAACNTTTTGTNTTTCATGTCNGGNCAACAATTG
CAGGATGCCCATNTCCTCATTCCTNGCAATAGATTNTNGTTTCANGAACTCTGCNTAACNGTGGNA
AAGAGAGGAAAAATTTT

SEQ ID NO: 1425 ACAGAAAAGCCCAGATTTAAATACATTTAATATGTCGTTTTAAAAATGATTTT
AATAATTCATTTCTTAAACACTGAATGAATTTTGAAGCTTAATGTTTTTAAAGGCATAGTTTTATC

TTTGACATCTAATTTACCATCAAGTTGTAAAAATTATTTGGAAAAATACAGAACTCGTTTTATTGTGTA
TACTTATATGGAATCTGCGTGTGAGGTGTTTGAGGGCATATGTTTGAAAGAGGGAGCATCACCAC
AGGAATCCTTTCTGTGAGGTGGAACAGTGGTCTGAATCATTGTGCTCACACCTAACTNGAAATC
TGGTCTTACTTTTCATNGCTGGTATTGATTCCTGGTGGNNNCAGNGTTTAAAAATAAGAATGGTAAT
AGTTGGGTAGGGCNAATGGTNTTTAAATTGAAACTATTTGAAAAATGCNCTCTTNTCTACCAAATT
NTAATNTCNTTTCTTCCCTTTNTTGGCTACACCAGNGATCAANNAGTTTNTCATANTGCTTTGANA
GTT

SEQ ID NO: 1426 ACAAGTAAGAAGCTGGCGAAACATAGAGCTGCAGAGGCTGCCATAAACATTT
TGAAAGCCAATGCAAGTATTTGCTTTGCAGTTCCCTGACCCCTTAATGCCTGACCCCTTCCAAGCAAC
CAAAGAACCAGCTTAATCCTATTGGTTCATTACAGGAATTGGCTATTCATCATGGCTGGAGACTTC
CTGAATATAACCTTTCCAGGAGGGAGGACCTGCTCATAAGAGAGAATATACTACAATTTGCAGG
CTAGAGTCATTTATGGAACCTGGAAGGGGCATNAAAAAAGCAAGCCAAAAGGAATGCTGCT
GAGAAATTTCTTGCCAAATTTANTAATATTTCTNCAGAGAACCACATTTCTTTACAAATGGANTAA
GGAAATTTCTTAGGATGTACCTCGGNCGCGACCACGCTAANGGCG

SEQ ID NO: 1427 ACCCCTTAACCCCTTCTCCTTACCCTTAGCAGCAAGTCCCACTTTTCTAGGG
GGCAAGAAACCCCAAACCCCTTCCCTCCGTGTCTTTACGCTCTCTTTTCTCTGGGTTTGCTTCCTTC
ACTATGGGCAACCTTCCATCCTCCATTCTCCTTCTCCCTTAGCCTGTGTGCTCAAGAACTTAAAAAC
CTCTTCAACTCACACCTGACCTAAAACCTAAATGCCTCATTTTCTTCTGCAACACCGCTTGCCCCA
ATACAAACTTGACAATGGCTCTAAATGGCAGAAAAATGGCACTTTTCGATTTCTCCATCTACAAGAA
CTAAATAATTTTGTCAAAAAAATTGGCCAAATGGTCTGAGNGCCTGATGTNCAAGCANTCTTTT
ACACATCCGTACCTTCTAGTCTCTGTGCCAGNCAACTTCGTCCCAAATCTTCCTTTTTTCTCCTCC
ACTGGTNCCTTAANTCCNAACCCAGCGNTGCTGAGTGNNCTAATNTTCTTTTNTACAAACCCAT
TTGAACTNTCCNTTCTTCAACGCCAAGTAGGNCCAATTTTCTNAGGCTTCACTCCTCACCT

SEQ ID NO: 1428 ACTTCTACACATCTGCCTAACTTGGGAATGAATGTGGGAGAAAAATCGCTGCT
GCTGAGATGGACTCCAGAAGAAGAACTGTTTCTCCAGGCGACTTTGAACCCATTTTTTGGCAGTG
TTCATATTATTAAGTCAAAATGCTAAATAATTTGGGAGAAAAATTTTTTAAGTAGTGTT
ATAGTTTATAGTTTATCTTTTATTATGTTTTGTGAAGTTGTGTCTTTTCACTAATTACCTATACTATG
CCAATATTTCTTATATCTATCCATAACATTTATACTACATTTGTAAGAGAATATGCATGTGAAACT
TAACACTTTATAAGGTAAAAATGAGGTTTCCAAGATTTAATAATCTGATCAAGTTCTTGTTATTNC
CAAATAGAATGGGACTTGGTCTGNTAAGGGCTNAGGAGAAGAGGAAGATAANGTTAAAAGTTGT
TAATTGACCAACATTCTAAAAGAAATGCAAAAAAAGTTTATTTTCAAAGCCTTCNAACTATT
TAANGGAAAGCAGAATCATTTTTCTAANTGCCNTATCATTTTGGGAGAAAN

SEQ ID NO: 1429 ATATCCGCNTNAATTGCGCCCTTTNGNGCGGCCNNCCGGGCGNGGTNCCACCTA
CACCCAACNAGTCANTGAGGGACTTCTTTTTAATTTGGTAGGATTTGACTGGTTTTGCAACAATA
GGTCTATTATTAGAGTCACCTATGACAAAAAATAGGGGTTACCTAGATAATGCCNAAGTCAGCA
TTTGTCTGGGTTCCCTTGTGTGATCTGTTTGGACTATGTTTCTTTTCTTCTCCCACTTGCTCAGCA
NCTTGGGCTTCCATTCTAGTTCTTTTACCAANATTTTNGNGTGACCATGTTGACTTCAATTGGATTG
CCCTCTTTCAATTTCTTGTGAAAACACCCTTAACTTTCTCTTTACCCTTAGCTGAAATGTTTACAT
AGCTTCTGGTGATATCTTTTCATGATTTTATATCTCTTAAATGGTGATGGATGTGACACCTCATAA
AAGTGAGCTTTGAACTGTAGATAACTCTTAAAGAAAAATGTCATTTTAAACAATTTAAATATTTGT
GCTCAACTGCTTTGGNCCNANANTTNAAGGCNACAATCTCAATNAACANATTTNNCCGNGCCCTC
AGGGTT

SEQ ID NO: 1430 ACACAGAGGGCTATAATCAGAGATCGAGCAGCTTTAGAGAAACAAGAAAAA
CAGCTGGAATTAGAAATTAAGAAAAATGGCCAAGATTGGTAATAAGGAAGCTTGCAAAGTTTTAGC
CAAACAACCTGTGCATCTACGGAAACAGAAGACGAGAAGCTTTTGCTGTAAGTTCAAAAGTTACTT
CTATGTCTACACAAACAAAAGTGATGAATTCCCAAATGAAGATGGCTGGAGCAATGTCTACCACA
GCAAAAAACAATGCAGGCAGTTAACAAGAAGATGGATCCACAAAAGACATTACAAACAATGCAGA
ATTTCCAGAAGGAAAAACATGAAAAATGGAATGACTGAAGAAATGATCAATGATACACTTGATGAC
ATCTTTGACGGTTCTGATGACGAAGAAGAAAGCCAGGATATTGTGAATCAAGTTCTTGATGAAATT
GGAATTGAAATTTCTGGAAAGATGGCCAAAGCTNCATCAGCCGCTCGAAGCTTACCATCTGCCTCT
CTTCAAANGCTACAATCTCAGATGAAGAGATTGACGGCACTCAAAGGCTTTAGGAG

SEQ ID NO: 1431 ACCAGGTGGGGAGAAGTGATAGCAAATCTCAGTGCCAATTTGAGGGGAAGCC
AGTCATTCCAGGAGAAGAGCTGAGGGGAAAGAGCTGTTGACTTTCATAATGCAGTCTTAATTATC
CAGTCAACCTCTGCCACATGGCAGAAGCCAGGTGGCAGTGATGGTGGTGGGGGAAACAAAACA
CACAGTCTCTGCAAGCCCCACCGGAAAGGAGGGCTCAGAAGGCGTAGCGGGTCCGGATATCCT
CGAGTTTCTTGACACTTCGGGTGGGGTTCGGTCCAGTTCTTCAGAGACGTTCTTTTGTGTTGTTGGG

TTCCATGGAATTGAACTGCTCACAGAGGTCTCCATCAATCACATTCTTCACAGGGAANTAGTAGGA
GCGAAAGCTGAGGTGGTCCCCCACAGAGAGGGGGATGTTCAAACCGCANGTGCATTTTCACATG
CTGGAAGAAGTCATGGTCCCTCATGGGACGTGAATGGCCAAGGATGCCCATTCCTTCCAACAAAGG
TGGTNTANACAAATGATTCTTGANCCTCCAGGGATCANCGNTGGNCTT

SEQ ID NO: 1432 TTAATTCNCCTTANCGNGGTGCGGNCNANGTACAAANATGACTATAAACA
NGATGCATCCCTCGGNTTCCATGAACAGCACACTATTACAGTAAACCANNTTTATNTTCCACCATC
AANTGTGGCTCTCCCATGACTTCNCTTTGTGATGGATCATTAAGAATATCCTCAAATCCAATAGTC
TCATCATTACCCCTCAAAACATCCANTGAAAGATTTGAGCTTGAAAGAAATGGAAGACGCTGAAC
CTGCTGCACTGCCTTGAATTCCATCTGTAATTTAGCGGAGCAAATAGACCCTGAATGTTTCTCAG
TGTGGAAAAATTCATTTTATCTTGGTTGAGCTGGAATTTTTTCTGATAATTCAAGGGGATGACT
AGGCAAAAGTTTCATTTTTCACACAAGAAAAACCTTTCCGAAGAAGATCATGACTTTCAAAAGGTC
CACTTGCTGAAAGTTGAGTAACTGGAATACTGTCTTTAACTCANATCCAAGTCCTCTGGCATTCA
TCTCCCCGCGT

SEQ ID NO: 1433 ACTATCACTTTGCCTTGCTCAGTCTCTCCTTCCGCGGCCACAGAAGGAG
AAAGCCCAAAGCATACCCATCCTGCCCTTTAAAAAAGAAAGAAAGATTTCGTCTCTCACTTT
GGAAAGCTCACCTACTCTCCTAGGTCCTTCTGGAGGGGCATGGAGGACAATATTCATGTTGCCAT
TTGATGCCACTAAGGATCCCCAAGGCAAGAAGACACTTGAATTATGCCAGAGTAGGCCAGCAAAG
GGGAGGGAAGGGACAGGGAAGCAGCCCCATGGCAGGGACTATAGGACCCCTGCCAAACCTGAA
TCTAGAGGGAATGCCCCACCTGGCTCAGAGCAGGAGAGGAAAAGGCATGTGCTGACCGGGT
GGGTCTTCCCCAACCCCTAGGGAGGGCAGAGAACCTGCTGATTCTTCCCTGGGTTTCCCAAGGT
GAGCCAAATTTCTANGGAAAGGGATTTTAGCACTAGGAAAAGGAAAATACTGCTGCTGTTTTCTGA
AGTTCTCANCTGAGATTTTAAAAACCATATCAGGCCTTTTNCAGGAA

SEQ ID NO: 1434 ACNGCGGGATAATAATTATCTTTGAAGTANAACANTTCTGTAACTGGAAAA
NCACAGGATNTATCCATCATATTTTTCAGGACAGATAGTTTTTACTGTGGGGCAAATAGGTTAAAA
TTACACTNTGTAGTTGCNTTTANGTTTTAANGCAAAGAATCTGTNGAGAAATCTATGCAATATAT
AGTTTGTCCAGATTAGCTTTTCAATTTGGGGAATGAAGTTCTGAAATATCTAAAGCAGTTNCTCATCA
ATTGAAAAGTCTCCAAAAAGAGAACTATTGGGAAACCATGGTGTGGTGGTGGAAAAATAAAGCT
CCCTCANNNTTTGGAGGGAATAACTTAAAAAATACTTAAATGGCTAAGTTTACTTGGTGCAATT
AANAATTAACCTTGNCAATTTTAACATNTNCTGTTACATCTGAAATAAACTTGTNTGATGNNCTGG
TCNGCNAAGGA

SEQ ID NO: 1435 ACGCGGGTGAGCAAACTACTCTGGATAAATCTCTTCTAGATATAATATCAG
ACCCTGATGCAGGAACCTCCAGAAGATAAAATGAGGTTGTTTCTTATCTATTATATAAGCACACAGC
AAGCACCTTCTGAGGCTGATTTGGAGCAATATAAAAAAGCTTTAACTGATGCAGGATGCAACCTT
AATCCTTTACAATATATCAAACAGTGGAAAGGCTTTTACCAAGATGGCCTCCGGCCAGCTAT
GGCAGCACTACCACTAAACCAATGGGTCTTTTATCACGAGTCATGAATACAGGATCACAGTTTGTG
ATGGAAGGAGTGAAGAACCTGGTTTTGAAACAGCAAAATCTACCTGTTACTCGTATTTTGGACAAT
CTTATGGAGATGAAGTCAAACCCCGAAACTGATGACTATAGATATTTTGATCCCAAAATGCTGCG
GGGCAATGACAGCTCAGTTCCCAGAAATAAAAAATCCATTCCAAGAGGCCATTGTTTTGTGGTGG
GAGGAGGCACTACCTGAATATCAGAATCTTGTTGACTCATAAANGG

SEQ ID NO: 1436 ACAAACCTTTATTGAAACGCACACGCGCACACACACAAACACCCCTGTGGATA
GGGAAAAGCACCTGGCCACAGGGTCCACTGAAACGGGGAGGGGATGGCAGCTTGTAATGTGGCTT
TTGCCACAACCCCTTCTGACAGGGAAGGCCTTATATTGAGGCCCCACCTCCCATGGTGATGGGGA
GCTCANAATGGGGTCCAGGGAGAATTTGGTTAGGGAGAGGTGCTATNGGAGGCCTGANACAGAGG
GCACCCCTCGAGTGGGGTCCCGANGGCTGCAGAGTCTTCAAT

SEQ ID NO: 1437 ACTCCAGAGGAGTGTGAGGAGACGAGTGAAAAACCCAAAANGAANAAAAAG
CNAAGCCCCAGGAGGTTCTCAGGAGAATGGAATGGAAGACCCATCTATCTTTCTCCAAACC
CAAGAAAAAGAAATCTTTTCCAAGGAGGAGTTGATGAGTACCGATCTTGAAGAGACCGCTGGCA
GCACCAATATTCCAAGAGGAAGAAGTCTACACCCAGGAGGAAACAGTTAATGACCCTGAGGA
GGCAGGCCACAGAAGTGGCTCCAAGAAAAAGGAAATTTCTCAAAGAGGAGCCGGTCANCATT
GGGCTGAANAGGCGGCTGGCAAGANCAANTCCAATAAGAAANANAAANTTCCATAAANCATCC
CAGGGAAGATTAGANTGCGGCTGGACATTCTCTGGGAGGTGGGGCATAACCATNNCCCAAGGTGAC
ATTTNCCACCCCTGTGCCGTGTTNCCATTANAAACAAATTTNCACGATGANAACGTTATGGGGCC
AATT

SEQ ID NO: 1438 ACTGTGCTATGGACCACGCACATACAGCCATGCTGTTTCAGAAGACTTGAAA
TGCCATTGATAGTTTAAAACTCTACACTCGATGGAGAATCGAGGAAGACAATTTAATGTTTCATC

TGAATCCAGAGGTGCATCAAATTAATGACAGCTCCACTTGGCAAATAATAGCTGTTACTTGATGG
TATCCAAGAAGAAATGGTTGGTGATGGATAAATTCAGAAATGCTTCCCCAAAGGTGGGTGGTTTTT
AAAAAGTTTCAGGTCACAACCCTTGCAGAAAACACTGATGCCAACACACTGATTNCNGGTCCAG
GAAACACGGGTCTTCCAAGTTCCAAAGGGGGCTGGGGTTCCCCAACGATCAAGTTCCTGTGCTGTAT
CAAGANGGTCTTTGGACTGGATAGGGAGCACTTGGGAGCTGTACCTTGCCGGGCCGGCCGATCG
A

SEQ ID NO: 1439 ACGGGGGATAATAGATTAAAGAATTTACCCTTTAGCTTTACAAAGCTACAGC
AATTGACAGCTATGTGGCTCTCAGATAATCAGTCCAAACCCCTGATACCTCTTCAAAAAGAACTG
ATTCAGAGACCCAGAAAATGGTGCTTACCAACTACATGTTCCCTCAACAGCCAAGGACTGAGGAT
GTTATGTTTATATCAGATAATGAAAGTTTAAACCCTTCATTGTGGGAGGAACAGAGGAAACAGCG
GGCTCAAGTTGCATTTGAATGTGATGAAGACAAAGATGAAAGGGAGGCACCTCCCAGGGAGGGA
AATTTAAAAAGATATCCAACACCATACCCAGATGAGCTTAAGAATATGGTCAAAACTGTTCAAAC
CATTGTACGAGCGAGCCCGCGTGCTGGGCACCCGAGCGCTCCAGATTGCGATGTGTGCCCTGTG
ATGGTGGAGCTGGAGGGGGAGACAAGATCCTCTGCTCATTGCCATGAAGGAACTCAAAGGCCCGA
AAGATCCCCATCATCATTGCGCGNACCTGNCAGATNGTNGCTATGAAGATTGGG

SEQ ID NO: 1440 TTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTTGAAAG
ATAAGTGGTCCCCAGCACTGCAGATCCGCACAGTTCTGCTATCGATCCAGGCCTTGTTAAGTGCTC
CCAATCCAGATGATCCATTAGCAAATGATGTAGCGGAGCAGTGGAAGACCGACGAAGCCCAAGC
CATAGAAACAGCTAGAGCATGGACTAGGCTATATGCCATGAATAATTTAAATTGATACGATCA
TCAAGTGTGCATCACCTTCTCTGTTCTGCGCAAGACTTCCTCCTCTTTGTTTGCAATTTAATGGACACA
GTCTTAGAAACATTACAGAATAAAAAAGGCCAGACATCTTCAGTCCTTTGGTGATTAAATGCACAT
TAGCAAATCTATGTCTTGCTGATTCACTGTCTATAAAGCATGAGCAGAGGCTAGAAGTATCATCT
GGATTGTTGTGAAACGTTTAAAAGCAGTGGGCCCCCTCCTGCTTTTATTTCATTCCCCCATCCTGGT
TTAAGTATAAAAGCACTGTGAATGAAGGTAG

SEQ ID NO: 1441 ACTAAACGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGCTGAATACAAGAA
AGAAATTGAGGAACTAAAGGAACTGCTACCCGAAATTAGAGAGAGAAGATAGAAGATGCAAAGGAG
TCTCAGCGTATGGGAATGTAGCTGAACCTGGCTCTGAAAGCTACTCTGGTGGAGAGTTCTACTTCA
GGTTCACTCCTGGTGGAGGAGGCTCTTCAGTCTCCATGATTGCCAGTAGAAAGCCAACAGACGGT
GCTTCCTCATCAAATTGTGTGACTGATAATTTCCACCTTGTCAGAAAAGAAGAGGAAACCANAGGA
AGAGAGTCCCCGAAAGATGATGCAAAGAAAGCCAAACAAGAGCCGGAGGTGAACGGAGGCAGT
GGGGATGCTGTCCCCAGTGGAATGAAGTTTTCGGAAAACATGGAGGAGGAGGCTTGAGAATCAG
GCTGAAAGCCCGGGCAACAAGTGGAGGGGGACAAGTGGANGCTGGAGCTACAAGTTTAAAGCAC
TGCATTGTTAAGANGGGGCACCAGCCCTCCTTCAAAGGGAAAGT

SEQ ID NO: 1442 ACTGAATTCAGTGCTTAGAACTGAAGTTATTGAGAGGACAGCTTTAAAGAT
GAATGAACCTAAAAGTTCGAGTTGTGCTCTTCACGTTGGTTCGATAATGGCCTTTATTTGAAAGCT
TTTTAATTTTCTTTACAGTAAATATTCCATTCTGATTTTATAAATTAACATTTATGCCTCCCTTTT
GTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTTGCAGTTTATTGAAAGTAGTTCT
ATATATAACAATGTTATAAGCATTTCTTTAGAAATGGTTGAAAATGCTTCTAAAATGTGATTATCG
ACCATGGTATGCATGATCGTTGTAATTGTTGACATTCTTTTAGAAGTTGTGAAATGTTACAACCTTG
TGCTTATGTAGACACAATCTTCTGTCTCAGTCC

SEQ ID NO: 1443 ACAAAGCAGCAACTGCAATACTCAAGGNTAAAAACATTAGAAAAGCATTGTG
TGACAGGTATATTACAGTATTATCAAAATATTACATTTTCAGACTTACTTAGCAGATAATCATCCA
CCAGAGCTTAAATCTTTAAATTATTTCCATAGNCTTAAAAAATATGTAATGNCAGAATGCATATAA
AAAGAATGTAAAAGGAAACCTAAAATACAAATGGAATAATGTAACAAATAAATATTTGATTTTCA
TAACTGTTAATAATCAGCTCAACACCACCATTCTCTCTAACTCAATTTAATTCTTATAGGAATAAT
GAACTGTCAAATGCCATGGCATAATTATTTATTTCCAAGCTATCATCAATGATTAGAACTAAAAAA
ATTTTGGCATAAAAAAATCACAATTCAGCATAAATAANGCTATTTTTAAGCTTCAACACTAGCTAG
CATCTCTAAGAATTGTTGAAATAAGT

SEQ ID NO: 1444 ACTTGTGCCTAGTTTTTCAAGGTATTGGCTGTTCTATAGATGCAGTGATTGTC
CCAGCTAGCTCTGTTACCAGCCTTTTGGTGTGCTTTATGTTTCAATTTGGAGAGTCAGGGCGAAAGA
CAGGTGATGTAGCACTTCTGTTTTTAATAATTATTGCTTAAAAATACCTATTAATAGTTTTGGGTGAT
TTAAAGGGACTTGAGGAAGCTACCCAGGATTACAGAAGAGTGTCCACCTAACAAGATGGCCTGGC
AGTTTCCTAGTTTTGTATCTGGTTCAATAGAAATATGTGAAAGTGGTAATGTCATCATTTGATGCA
GAGTCCGGGTTTCTCTATAATAAATCCCTTTGCCAAATGCATGAGTTGCAGACTTGCTACTGGCAA
GAGTGAAGCAAGTGGGTGAGTAAACTATTTTGACGTGGGAGCGTTTTTCAGATAGGAGTTTAAATC
TTGACGAAAGTGTCCGTGCANGAATTGGACTCCGAGGAGGGTTACAGTATCTTNCTGACGGGACC

TGCCACTCGCATNTGGGCAATGTTGACATTTGAG

SEQ ID NO: 1445 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTATCAAAGTTTTAGTGTTTAATAATGAAT
AGCACAACCTGACCAAGGTCCAAGATGTGAANATACCATGTTCAANAACTGGGGGGAAATCACTC
TACAAACTAACTATNTACTAGGNGATAANAATGCATACCTTATAATATAAAACCTGTCTACACATA
GTAGTTAGCTGCAAAAAGCCATTGATCTTNTNTTGGCTTGGA AAAATGCCAGATTCCAGTATAAA
TTATTAGCAACCTTCAACTNTTTGCGTGGCAGGTATCTTGTTTTCACTTTCCAGTTCTTCCACCCC
AGCCTGTGTCATGAGGTCCGCGATATTCTTTTCCAGATCATCAATGCGACTACTCATATCATCAATT
CTCCCAATGATCTGGTCANACATGGTCTGAAATTTATCTTGCATCTGCTGCAGGAGTGTCTGCACC
ACCGAGGTGAGGTCTGACGGTCTTGGGGTCANTCTCGGCCATCTTCCCGATGCCAGNTTGGCG
GNGATGTCTTANACCGTAACCTACACTTNCGTTT

SEQ ID NO: 1446 ACAATAGCGTCTTCTTCCAGCAGTCAACTCAAGCACAAAAGCCAGACTGACT
CACCTGATGGTAGCAGTGGGCTGGGAATTTTCATCCCCATAAGAGTTTCAGTGCAGGAGAAAGCTCT
ACTTCTCTCGATGCTAATCACACAGGGGCAGTCGTTGAGCCTTTGAGAACTTCTGTTCCAAGACTC
CCATCAGAGAGTAAGAAGGAAGACTCCTCTGGCGCTACCCAAGTCCCCCAAGCAAGTCTCAAAGC
CAGTGATCTCTGACTTTCAATCAGTTTCCAAGCTAAACCAGGGCAAGCCATGCACATGCATAGG
CAAGGAATGCCAGTGTAAGAGATGGCATGATATGGAAGTGATTCTTTTTCAGGCCTGCAGAGTG
TCCCTCCCTTGGCTCCAGAACGAAGATCCACACTTGGAGTACTCTCAGTCGCTGCACGCCAGAA
CTCTGTCTGGCTCTCCCCGATCCTGTTCTGAGCAAGCTCGAGTCTTCGTGGATGATGTGACCATTGA
GGGACCTGTCAGGCTACATGGAGTATTACTTGTATA

SEQ ID NO: 1447 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAACAGNGGTTTTATTGGTAAANAT
ATAANACATATTGGCTNTATTAAAACTCAGGTAATAAAGCNCTAANCCTTGATTTTTGTATTGCTA
CAGTCTNTTTNTNTAAGGGGAAAAAAATCTCCCCAANAATAGGATGCTACCTGAGGAATTATGC
CGAATAAANAAGGAATGGATGGTCGGCAGTGAAATTTTNTTCGGGCATCAACATGCAAAAAGT
TGCNATGCCTGCTGTGGCAGCTGCCGCTNTGTTCCCTNTTCATTCACTTCCACAAATGACTTGNG
GACAATTTTTGATATAAAAAATATCTCTGGCTCCTGACATGCCAAACANATCAGCCTTGCTACTGTT
AAAAGATCCTGCACACCTAGGCGGGCGAGGTGCGAGTTGAAAGTGTAAGTCTCTTCCAGTTTGAA
CCTGGGCAAGCTGACATTAACCTTCAATGAAATCGAAGATTCTCAGGTTTAGTCCACTCATGCAACT
TTTCCAAAGTCAACTGTTTCTCAATCTTNTTCAGG

SEQ ID NO: 1448 ACTGATGGGGAAGTGCCGGCGCTTCTTGATGAACTAGATGTGGTTCAGATG
GACTGAGCTTGATGCTTCTGAGGCAAGCTGAAGCTTTGGGTCTGACTGACCCACCCTACAGGAC
TGCTGAACAGAGAGCCCAGTGTGACTAGGGATCCTGAGTTTCTGGGACAATTCCAGCTTTAATCA
ATACATTTTGTAAATGTGCCATAAAATGAGACTTTTTACGCCCTTATAAGGCCCTTAGATGTAAT
AAACTCACCCCANCAAAAAAAAAAAAAAAAAAAAAAGTACCTNNGCCGNAANCACGCTAAG
GGCG

SEQ ID NO: 1449 ACACCTCTTGCAATTCGCTTTATGTGCCCCAATGGAAGAGGTGTCCTCTGGAGC
GTCTGTGCTAAAACTCATTCAATTGATGAGAAGAGAGATCCTTCAGGTCTGTGGCATTGAATGAA
TTTAAATCATCTTCTTTGGCAGTAATCCATCTTTGACTTAAGGCAATACAAGCATTGTGTCAGAGTCA
TATCATAATTGGGCTTTATGGGAGGCAGTCCAGGAGAGTAGAGCCAGGCATTCCAATCAACTTGA
TTGAGAACATCAACCTTATCTTTAAATAGGAATACAGGAAATCCTTCCAGTCATCAGTAGTTATG
CTCTTATAGGAAAACCTTCTCAACATAAGCTTTTAAAGATCCTAGGAAAATCTCTGGTCTCTCAAGC
AGTTGTTCAAGGTAAAAAAGTAAAGCAAAGCCCTTCTCATAGGGAAGTGAAGAATAAGCTACATC
AGGGTCTATATCTGTGATCAACCAAGTTTGGGTGAAAGGATGTGTCTTCCCAAATGTCTTT
ACCGAATTCTGTAGTTCTCCCCATCCTCCCANANCATTAAAAATGTCTGAAC

SEQ ID NO: 1450 ACCATTTTACGAATTTCTGTCTTCATAATATAAGTGAAAATACTGTCAATTTCA
ATTTTCTGCTTTAAATTGTTTTTAATAAGCATTCCAAAGTGATACAGACTTAAGCTTTTAATCAATC
AGTCATTGAGTTGATAGACAAAGTTAGCGATGCTTTATGCTAGGAACTTGTGACAGTAACCTGT
GCGACTTTATGTAGAAGACAAATGCTAGTAATTATTATGCACAGAGGAAAAATCATTTTAAAGTAT
GTGGTAAAGCAGCTTCATCTTTCAAATTTGATTTGCTCTGGTTTTCTTTAGTCCATTAGATTCCAG
AATGTCCTTTTACTGGGAATTTAGTTATGTATTAAGATAACCTGTTTTTCAAGTTCTTTTGAAGAA
GACATTATTTATATTGAACCACCTTATTTTAAATTTTAACTTTTATATCCACTGTGTGATTCCA
GTGTCATGTCTTGGGTTTGTGTCGTTGGACAGAAAAGTGATCAATTATTTAAATGAATTTTCCC
CCTGTTTGGGCTTAGTCTGNAAATGNGTTGCTGNAACAGAAAAAT

SEQ ID NO: 1451 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGGANAGTTCTGTANATGTC
TATTAGGTCCGCTTGGTGANAGCTGAGTTCATTCCAATCAATAGAAAAAGAGGGAATCCTCCCTA
ACTCATTTTATGAGGCCAGCATCATTCTGATACCAAAGCTGGGCAGAGACACAACCAAAAAAGAG

AATTTTAGACCAATATCCTTGATGAACATTGATGCAAAAATCCTCAATAAAATACTGGCAAACCG
 AATCCAGCAGCACATCAAAAAGCTTATTCACCATGATCAAGTTGGATTTCATCCCTGGGATGCAAG
 GCTGGTTCAACATACGCAAATGAATAAACATAATCCAGCATATAAACAGAACCAAGACAAAAA
 CCACATGATTATCTCAATAGATGCAGAAAAGGCCTTTGACAAAATTCAACAACCTACATGCTACA
 AACTCTCAATAAATTAAGTATTGATGGGATGTATCNCAAAATAATAGGAGCTATCTATGACAAAC
 CCACAGCCAGTATCATACTGAATGGGGCAAAAACCTGGAAGCATTTCCTTTG

SEQ ID NO: 1452 ACGCGGGGAGCACCTCCTTGATTCTCAGTTTTGCTGGAGGCCGCAACCAGGC
 CCGCGCCGCCACCATGTTTCGAAATCAGCATGACAATGATGTCACTGTTTGGAGCCCCCAGGGCA
 GGATTTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTTCAGCCACAGTTGGTCTGAAA
 TCAAAAACCTCATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCAGAA
 AAAAATTCTCCATGTTGACAACCATATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACT
 GTTATGTAATTTTATGCGTTCAGGAGTGGTTGGATTCCAGATTTGTATTTCGATAGACCACTGCCTGTG
 TCTCGTCTTGTATCTCTAATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACC
 ATATGGTGTGTTGCTCTCCTTATTGCTGGTTATGATGATATGGGCCCTCACATTTTCCAAACCTGTCCA
 TCTGCTAACTATTTGACTGNAANAGCCATGTCCATTTGGAACCCCGTT

SEQ ID NO: 1453 ACAAACAAATTATGACCGTTGGAACATCCCTTCTTCCTTGATGATCGCAGAA
 CGCCTGCAAAGATGTGTCTGAACCCGACCAGCCAAGAGAATATCTCATTTGAAACCATGTATGAT
 GTCCTGTCAACAAAACCTGTCCTCAACAAGCTGACCGTATACACAACCTTGATAGATGTTACCAAA
 GGTCATTTGAAACCTTACCTGCGGGACTGCCCTGACCTTGTATAGGTTGGTGAGCACACGTCTGG
 CCTACAGAAATGCGGCCTCTGAGACATGAAGACACCATCTCCATGTGACCGAACACTGCAGCTGTC
 TGACCTTCCAAAGACTAAGACTCGCGGCAGGTTCTCTTTGAGTCAATAGCTTGTCTTCGTCACCT
 GTTGACAAATGACAGATCTTTTTTTTTTCCCCCTATCAGTTGATTTTTCTTATTACAGATAACTTCTT
 TAGGGGAAGTAAACAAGTCATCTAGAATTCAGTGGTTTGTTCACCTTGACATTTGGGGATCT
 GGTGGGCAGTCNAACCATGGTGAACCTCCACCTCC

SEQ ID NO: 1454 ACTCTAGGAACCCAGGGTCACCCAGATGTCCCTTTGATGGCCGTTGTTGAAG
 GCCATTGGGACCAATAATCTATATTAGATTGAATACTTAAGTTAGATGTGGTTTCCCCCATTTGTAG
 CAGGGAGCTAGCGTNTTANCCTTGTGGCAACATGATGCATGGGAAATGAAANATTTTGTAAAA
 AGTCAGTNTTTNTTCCAGGAAAAGCCNGNCNTNTNTTTTNNACNNCCCCAAAANTTTTAAANGNAG
 GGGTTGGGGGTCANNAGGGGTCNTNCAATTTGGGANNGAAGGGGAANTAAACNTCCAANAANG
 GCCTAAACAAANANCTTTTCATCATTAAAAATTTTCCAGNGTCTGATTTGTGACTTTGAGGCCA
 NTGAGTNTTAAACAAATATAANAAAGCTGTCAATGAGTTTTTTNAAAGGNGGGGAAAACCTTTTAC
 NAATCTAAACCATGGGCNTANAATTGNAAACTGGGCTCATCAAAATCGGGACTATTATNGCTC
 CATAANACTGGGAAAAAAAATGATGGGGGACCTTTGGTGGA

SEQ ID NO: 1455 GGACAAAGATGACTATAAACAAGATGCAGCCCTCGGTTTCCATGAACAGCAC
 ACTATTACAGTAAACCAAGTTTATATTCCACCATCAAGTGTGGCTCTCCCATGACTTCGCTTTGTGA
 TGGATCATTAAGAATATCCTCAAATCCAATAGTCTCATCATTACCCCTCAAACATCCAGTGAAAG
 ATTTGAGCTTGAAAGAAATGGAAGACGCTGAACCTGCTGCACTGCCTTGAATTCCATCTGTAATTT
 TAGCGGAGCAAATAGACCCTGAATGTTTCTCAGTGTGGAAAAATTCATTTTATCTTGGTTGAGCTG
 GAAATTTTTTTTCTGATAATTCAAGGGGATGACTAGGCAAAAGTTTCATTTTACACAAGAAAAAC
 CTTTCCGAAGAAGATCATGACTTTCAAAGGTCCACTTGCTGGAAAGTTCAAGTAACTGGAATACT
 GTNCNTTTAGCTCANATCCAAGTCCNTTGGCTTTCATCTTTCCGCACTTTTGGCAACAGCCTCTN
 TGGNCCCGTTACCGNTANTNGACCCCGCGCTCACTTTTCGTTTTCCCC

SEQ ID NO: 1456 ACACATAAGAAAAGGATTAGTAACACTTGGGCAAGTAATAAACTGTAGAAC
 TTTAAAAGTAGTAAAGGCATATACCAAGCATACGTGACTCCACACATTGTCAGAAAGGCAGTGGA
 CTGGCTAACGAGTTTCTGCCAAGTTTCAGAAGCAAAGAATGCACTAATGAAAAGGGTAAGGCATC
 CAAGCAGAGTGTCTGAATTGATGGACCACTTTTGTCTAAAACCTAATTTCACATCTTCCAATATGC
 AAGCAGGCATTTGTTTTAAGGTGAAACACTTTATAAGAGAAAAAGAACTCCTATAAAGCTTATA
 AGATCAGAAAAAATTAATACTGAATTTTTATAATCAATGCATGGAGCAATGATATAAACTGACCA
 TAACAATTTTGTGAGAACAAAGTATAAACTATCCATTACTACCTTAAAGAGTTGAAAGTTAAGCCC
 TCTAAAGTATTCAAAGTGGAATAAATAACAAGGTAGGAAATGCAATACCTATATATTTTAAAAAG
 CCCACATCTAGTTAATGTTCTCTTAGTTTGGTTTAAACCAGTTGTTTCATCC

SEQ ID NO: 1457 ACATTTGGAGGATCATCTTCCCAGGGTCTTTTAAAGACTTTCTGAAAAAGCCTT
 TTCTACCTTAAATGTCAAGACATCTCCATGAACAATTCTCAGTTTCCCAGGTGCTGCATCAGAAAG
 CATCTGTAATCCAGGAATAAATCGAGTGTCTTTTCAACCACCAGAAGTTTCAGCGACGTCGGCATT
 AAGAATAGATCTTGTGATTCCCCCTGGCCCAGGGCCCACTTCGTAAACATAAGCATTGTGTCAGATT
 GCCAGCTTTCCTTACAATCTTATCTGTCAGCCTCAAGTCCAGGAGGAAATTCGTGTATAGCTGCTT

CGCTGCTTGCACTCTTAACAACCTTAATGATTTCTCGAATCGTGGGCAACGGAGGGAGACGGCAAG
TGCTGAGTTTTCCGGAGGCAGCCATGATACGCGGCAAGGCACCATCCACCCCTACCTCACCAGG
CCCCGCGTACAAAAGGAATGTTTCCTTTATAAATCACAGAAGAAAATGACAATATCTGNTGGATA
TTTGATATAATTTAATGGTGTTATAAAACCTTTAAGANGATTTCATGGG

SEQ ID NO: 1458 ACAAGCCTCACCAAGGGCAACCCAGAAAAGTGAATGAGTTTGTCTTCTCCA
ATCATGACTTCTCGATAAGTTTGCAACTTCCAAGCTTACCAGTTCTGGGTGATCAAAGGTAGAG
GCAATTTACCACCTGTGACAAGAGCTAGGCGTTCCACACCTGCAAAATCTGCATGCTCAATAGCC
ATGACACCAGCAGCACCAAAGAGCTGTTCAAGGATAATTATAAATTAATTGCCTGTTAATAAAGCA
ATTTATTCCATGCTTAAGAATACGTTCAACTTTCTCCTTCATTTTTCTTTTCCGCATGTTCTATTT
CTGCAACCTTTGCTGTAGAGTCAACTCTTACCCGGGAACCAAATATCTTTATTTTGTCTGTATCCAT
ACCAGTATTTGCAATAAGAATTTTAGCATTTTCAATTCGTTTGGTTGATTTACTCCAATTTTTTTAT
CCAACAGGAAGCCTTCATCTAAATAGGAATCTGCCAAACTTCTCCTAGCTTCTTGATAATATGAA
TTGCCCTCCAGGTTGCCAGAGCCTTTCAGTCTGAGAACTG

SEQ ID NO: 1459 ACAAGATGCTGTGTAAGTGTTTTAATACAGCAAATAGTAACTCTCCAAATCCT
GTTGCTTTTATGTTAAATAAGATAACAAGAATTGGAGCATGCAAAGAATGGGACTTGGATAATGA
CTTAAGCTTTATATGTAAAGAATTTTAGAAGATCTTGGTGCTGCTATTCTGCTGGAGGAATGAAT
AGATGGCTGTTTCAGTTAAGCTATTAGTAATAAAAGTGAACATTGCTACTATCTGAGCCTACATAC
ATAACTTGTGTGATTTCAAATTAAGCTTGCATTATGTGTTAATTTCTTGCATCTAAAAAAGCATAG
AATTCCTACTCACACAGCTCAGCAACAACCATTTTGATGGTAACAGTTAATTTCTTTTATTAGTTTT
TTAAATTCAGGGTTCTGGATATTAAATTAAGTGGCATTCCTTAAAGATTTCTTCAAAAAAGCAAT
CCTAAATGAAAGTGTGTAAATTATAAGAAGCTGGCGATCTTTTGATATGCTGNTTCACAGGACCTG
CCACTGGAGGGCAGCTGCTTGTGCATTACTTGGTTTCCNGCA

SEQ ID NO: 1460 ACACTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTTGTA
ACATTAAACCATAACCTAATCAGTGTGTTCACTATNCTTCCACACTANCCAGTCTTNTCACACTTCT
TNTGGTTTTCAAGTCTCAAGGCCTGACAGACANAAGGGCTTGGAGATTTTTTTTTCTTTACAATTGAG
TCTTCANCAACTTGAGAGCTTTCTTCATGTTGTCAAGCANCANANCNGTNTCTGNAGGTTCTNTANG
CATANAGACGATTNGAATATCTTCCANAGATATCGGCTCTAACTGTCAGAGATGGGTCAACNNAC
ATAATCCTGGGACATANTGGNCNTCNTGANNAGGNGTCTGCCNNNTGTTTTTATTAACCAAATT
GAAGAAGGGCANCTGCNTTTGCAAANTTCTNGATTTGNGGTATTTTCAGNGGAAAAANTCTNNTT
AAAGCTTNGNCTGTTGGNGGGCACTTCNTCCACGGGG

SEQ ID NO: 1461 GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCAAATTTTGTTTTATTTTAT
TATGGCTANAAANACACTGTTNTAGCCAAAATCGGCAATGACNCTAAANATATGCAAATNTNTTT
NTTCCAAAANTTGCCCTGGNGNGACTTCAAAAGTTCATGTTAACTTNTTTTTNTGGAACTTCCTTTT
NTTAGTTGTNGNATTCTTGAAAANCCTGGGCCATGAAAAGCTTGCCTAAGTTTGGGCAGNGAACT
CCTTGATGTTCTGGCAGTAAGTGTTTATNTGGCCTGCAATGAGCGGNGAGTCCATCCTGGCAGGCG
GCTGTGGNGGTTTGAAAAGTTTGACAGGTCCTCCTCAGGGAGCGGGGTTNTCCTCGGCTNTGG
NNCTGCATNTTNTCCTGCTGGCNACCCTGCTGAAACTGATGTTTCNGCTGCTGTTGNTTACTANNA
TTCCTCATGNATGNGTGGGATTTAACTATATCTGGGGCTCATTTTCATNNACTCTGTCCATCAACAA
CTGTANATTCTTCCCCAAATNATTTGCTTGCTGGGCAAGG

SEQ ID NO: 1462 ACGCGGGGGGGCGCAGAGGCCTGCGGGAAGCCAAGATGGCGCATAGGGGTT
CTCCAGGCTGCAGTTGGCGCCTTATCAGTATCTAAGCGGAGTGTTTTGGAAGGAGTTAAGGGGCTG
TGGCAAACGCCCTCTCCGCCGTCATGGCCCGGCATCGGAATGTTGAGGCTATAACTACGATGAA
GATTTTGAAGATGATGATCTCTACGGCCAGTCTGTAGAGGATGATTATTGTATTTCCGCCGTCAACA
GCTGCTCAGTTTATTTATTCACGGCGTGACAAACCTTCCGTTGAGCCTGTGGAAGAATATGATTAT
GAAGATCTGAAAGAATCTTCCAATCTGTTTCAAACCATCAGCTCAGTGGATTGATCAAGCTCGT
CTTTATTTCATGCCTTGATCACATGAGAGAGGTACC

SEQ ID NO: 1463 ACTGGGATGGCCCTGAGGATCACAGTAATTCTTTGTAGTCATGAAAATCACC
GCCAATCCAATTTCTGCTTCAGGAATAGGTCTAAGACCTTGCCTTTGGAGCATATCCATTATTGAC
TGAATCCATTTCTTCTGACAGTCAGGAATTAAGGTCTGTGAGTTTGTATTCTGTATCAACAACAC
ACGTTCCCGGAGCCAAAAAGAAATTATGTTCTTCTTCTTCTTCTGTTATCAACCTAGCTTCCCC
ACCTCCAAAGACAACTGCGGAACCTCAATTTCTTATGCTGTTTGGCATTCAAAAAATATAAATGTTTT
CCCTTTGAAGATTTGTTTTCTTTCTGCGCTCCTGACAGATCAACATTTTTTACTTCCAATAGATGGT
TCATCAAGAGGTGGGTAAAAACTTTCAATTTGTGGAGGCTGCTTCTTGGACTCAACTGCTTTTCAAG
AATTCAGTAAATATTCTGGCTTTACAATTTGACGTCACAAATGAGTGCACATATTGGTTTAATG
GTAACCTTCACTGATACCATGACAAGGNGAGTGCAATTCTTCTG

- SEQ ID NO: 1464 ACAACAATTTCAAAAGGCATATATATGGGTAATTAGTGTTCACATATACCAA
ACCAGGAAACTAAACAAATCTCAAGGATGAGAAACATGAAGAAAACCTTCACTAAAGCGTATCAT
AATTAAATTGTCCAAAACCATTTGATAAAGAGAAAAATCTAAAAGCAGCCAGAGACAAAAAACAT
ATTATTTACAGAGAACAAAAAAGAGTGTCTGCAGATTTCTCACCAGAAATAATGCAAGTGAAAA
GCCAGTGGTGCAACATTTTTAAAAGTATTAAAAATAACACACACACACACACACACACACACAC
ACACACACACACACATGAACCTATAATCCTATACCCNAAAAAAAAAAAAAAAAAAAAAATTGG
TNCCTCGGCCGCGACCACGCTAAGGGCG
- SEQ ID NO: 1465 ACTGGCTGGCCACCAAAGCACACGGAGATTCTGTCAGGCGCTGAGACACCAC
AGCCTTTTCAATCTTGTCCCTAAGGGCTTTATCTTTTCATCCAATTCAGCAGAGGGCTCAAATTCCTTC
TCAACTGCTTCACGACTCTCCTTAGTTTTCTCACTTTTCATCGAACTTCACTCCTTCCTTGGCAACATT
CTGGAACCTCTTCCCATCAAATTCGGGAAGGGCCTGAATACAGTATTCATCCACAGGTTCTGTGAG
GTAAATAACTTCATAGCCCTTTTTCAGAAGTCGCTCAACAAATGGAGAAGATTACAGCCTCTTTTCT
GCTGGACCCAGCCATGAAGTAGATTTTGTCTTGTTTTTCCTTCATTCTTTCCACATACCTGGTCTAGG
CTAGTAATGTGAGTTGGATGATGAGAAGACTGGAACCTAAGAAGTTTAGCAAGACGTGTTTCTNATT
CGAGTGGTCTTCAATCACACCAAGCTTGATGTTGGTACCTTGCCCGGGCGGGCCGCTTCGAA
- SEQ ID NO: 1466 ACGCGGGGTTCCGGGGCAGGGCCGTGCTGATTGAGAATGTGGCTTCGCTCTG
AGGCACAACCACCCGGGACTTCACCCAGCTCAACGAGCTGCAATGCCGCTTTCCAGGCGCCTGG
TGGTCCCTTGGCTTCCCTTGCAACCAATTTGGACATCAGGAGAACTGTGAGAATGAGGAGATCCTGA
ACAGTCTCAAGTATGTCGGTCTCTGGGGGTGGATAACCAGCCACCTTACCCTTGTCCAAAAATGTG
AGTGTAATGGCAGAACGAGCATCCTGTCTTCGCTACCTGAAGGACAAGTCCCTTACCCTTAT
GATGACCCATTTTCCCTCATGACCGATCCCAAGCTCATTTGGAGCCCTGTGCGCCGCTCANAT
GTGGCCTGGAACCTTTTGAGAAGTTCTCATAGGGCCGGAGGGAGAGCCCTTTTCGACGCTACAGCCG
CACCTTTCCAACCATTAACATTGAGCCTGACATTAAAGCGCCCTCTTAAAGTTGCATATANATGT
GAACTGCTCAACACACANATCTCTTACTCCATCCAGTCTCTGAAGGAG
- SEQ ID NO: 1467 ACAGTAACACAACATCAAAAGCAACACAGCTGTATACAGAAACGTAGGTCAT
TCTTTTCAGCCCTAATGGAGATGTAATTAACAGTATCGAGCACTCTGGAAAATCACTCTGCAGGTT
TATATGGACATACATGGAGATCATATCCTGTAGTGTAGTGAAAGCTAAGTCTCAAGAGCCATATGT
ATAGATACACAATGTTTTTTAATAATCTTTAAAGCAGAGATCAAAGTTCAATTAAGTCTGTTTGC
ATTAACAAAAATAAAAAATGAAATAAAAAATGGAACCAAATGATCATCTAAAGTTTAAAAATTCCTAA
ATTGTCCAATTTATACAACCTGTGGGAGACTTATTCAAGGTTTTTGAAAGTCCAGTGATGCN
- SEQ ID NO: 1468 ACATTTATATTTCACTGATAATACAAGCTTCTGTGGTGTGTGGACCAGACACAG
GAGCCAAGGGTCCCTCTGTGTCTGTCCAATAGTATTTTACAGGAGGGTAGTGACATAGCTTATAAT
TAAGTTACATTACCATGGGGGTCTCAGTGCTACTAACATTATGTAATCAAGGAGATACGAGCATT
GCAAAACATGAACAAGAAGTCATATAACTCTTTCAGCACATTTCTGCCCAGGCTTTGGAGGAAG
AGGGATTTTTATGAAATGATATTACACATATCACATTGTGGCAGGTTGTTTGTGTTTATATAT
GCTTTTAAATTCATTAGCAAATGACATTCTCATGCACACGAGTGTTTCAACACACAAGAAGCAAGT
CCATTTATAGGTAGTCCAAGCAATATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
TGTGTGTNAATACTGCANACTGAATGGAACATTGANACTTTTTGTGCCA
- SEQ ID NO: 1469 ACGCGGGGACTTAACGGTGGTGGCTGGTTCTGCGCCGGATCCGGGAGAGGGG
CGGGCGCCATTGTGCTTCGCTGCCGACTGCATTTCTCAGTCACGGGCCTAGAACTCCAAGGAGAA
AGGCGGCGGAATTCATGATTTGTTCCGTGTAGCTGAAACATACATTGAATGCTTTCTGCCCTGGCAT
GAACTTACATGGTCAGAGCTGGTTTTCTGCCCCTCAAATATATTTNTCTGACTCTACCGGTTAGAC
TAGAAAAATCTTTAAGAATGGAGTCTAAACCTTCAAGGATTCCAAGAAGAATTTCTGTTCAACCTT
CCAGCTCCTTAAGTGCTAGGATGATGTCTGGAAGCACAGGAAGTAGTTTAAATGATNCTATCACT
CAAGAGACTCTTCATTTATATTGGGATTCTGAATATCAGTCTACATCAGCATCAGCATCTGCGTCA
CCATTTCAATCTGCATTGGTATAAGTGAATCTGAGATAACTCAAGGGAGNCACNCTCAANNCGGC
ANAAACCAGCATCTGGNNTCNTGATTNAAAAAAGACCCTAAACT
- SEQ ID NO: 1470 ACTTCTGTTTCTCAGTTTATCTGGATGTTATCAGATCACAGACCATGGTCTCA
GGGTTTTGACTCTGGGAGGAGGGCTGCCTTATTTGGAGCACCTTAATCTCTCTGGTTGTCTTACTAT
AATCTGGTGCAAGCCTGCAGGATTTGGTTTACAGCATGTCCTTCTCTGAATGATGAATACTTTTACTA
CTGTGACAACATTAACGGTCTCATGTCTGATACCCGAGTGATGCCAGAATTTGCAAGTGTGGTTT
TCGAGCCTGCTGCCGCTCTGGCGAATGACCCTTGACTTCTGATCTTTGTCTACTTCACTTAGCTGAG
CAGGCTTTCTTTTCATGCACTTTACTCATAGCACATTTCTTGTGTTAACCATCCCTTTTTGAGCGTGA
CTTGTTTTGGCCCCATTTCTTACAACCTTCAGAAATCTTAATTTACCAGTGAATTGTAATGTTGTTTC
TCTTGCAAATTATACTTTTGGTTTAGAAAGGGATTANGTCTTTTCAAANGGTGAGAACAGTCTTA

CATTTTTCTTTTAAATGAAATGCTTTAAAGAAATGGTGGTA

SEQ ID NO: 1471 ACGCGGGGGTTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTC
GGCTTTAGTGCTGTCTCCGCTTTTCTTTACCTTCACAGAGGTTCGTGTCTTCTCTAAAAGAAGGTTT
TATTGGGAGGTAAAGGTCAATGCGTAGGGGTAGAGTAAGATGTCTTATGGTGAAATTGAAGGTAA
ATTCTTGGGACCTAGAGAAGAAGTAACGAGTGAGCCACGCTGTAAAAAATTGAAGTCAACCACAG
AGTCGTATGTTTTTACAATCATAGTAATGCTGATTTTACAGAATCCAAGAGAAAACTGGAAATG
ATTGGGTCCTGTGACCATCATTGATGTCAGAGGACATAGTTATTTGCAGGAGAACAAAATCAAA
ACTACAGATTTGCATAGACCTTTGCATGATGAGATGCCTGGTAATAAACAGATGTTATTGAATCC
ATTGATTCACAGGTTTTACAGGAAGCACGTCCTCATTAGTATTTCGACAGCATGAGATATATAGCA
CAAGTNAAGCATTTATAGGACCCATTTACAAACCC

SEQ ID NO: 1472 ACGCGGGGGAGAAAGAAACGGCGGAGACCTGAGACCCGGAGGCTGAGGCTGT
AGGTGGGCTCCGCTGGGTAAAAGTTGCCGACGACGCTGTCCCTTGGCCCCATCGCGATTTATTTTC
CCCCCTTGCTTTCCGGGTCCCGGATCCCAAGTTTTTTAACTAACGGGAGCGAATCCACACCCGAG
CAAAATGTTTGCAGGTTTCAGGCGCCCTTAGTTGAAAGGCTGTAATTAACAAGTCCGCTGTTTGCC
AGCCAGGCGCCGTTGCAGGCGCTTTCTGTGGATTGTCATTTATTTCTCACAGCAACCCTAGGAGGC
TGTTATCCTTGACATCTGCAGCAGCCCTTCCAAGCTGTGGAGACCAGGTCATCTGGAATGCCATT
TATGTCAATGGAAGAAAGAAAAAGGGGTCTCCTCCATCCTCACTACTGCATTCTNCCACCAACCCCT
GCTCCTGTCCCACTTCCACAACCTTANTTTGTTGACAATTTAACAGTGGGTTTCTGGAAACAGTGCT
GCCTCCTTGATGGTCTAACTAACTACCAGAGTTATTCTTAACANCAG

SEQ ID NO: 1473 ACGAAAAGCGGCAGAACTAGCTCTGAAAACCTCTGAGCAAGGTCTGTGTGAAA
ATGTGTGACCCTGCCAAAGGAGCAGCTGGCCAGAGAACCATCGCTGCCCTTCTGCCTTGCCCTTCTG
GACAAAGGAATGATGAGCACCCTGACGGAAGTTCGAGCCCTCAGCATTAACACCCTTGTGAAGAT
CAGNAAAAGTGCANGAGCCATGTTGAAACCGCATGCACCAAACTCATTCCAGCTCTGCTANAGT
NCTTAANTGTTTGGAGCCCCAAGTTNTCAATTATTNANCCNTTCGGGCNACANANCAAGAAAAN
GCTGCNATGGATANGTGCTCGGCTTATTGNANCCAATATTTTCNNTGATGGNAACTTNAANTGTG
CCTGTANNCCCTTATNTTTC

SEQ ID NO: 1474 ACACGTGTTGGTGTTATATGGGGATGGGGTTCTCGGTAATTTTGTATTATTATTA
TGTTTATTATTATGTTTTATCATTAATTATTCAATAAATTTTTATTTAAAAAGTCACCCTACTTAGA
AATCTTCTGTGGGGGTGGGAGGGACAAAAGATTACAAACCAAACTCAGGAGATGGTAACACTG
GAATTGATAAAATCACCTGGGATTAGTTGTATAACTCTGAACCACCAAACTCTGCTATCAANCCCT
TGCTACAGTCATGGCTGTCCAGAAANATTTACAGTTATTTTTCTGAGAAAGGATCCATNGGGCTNT
AANAACCTTACNAACTTTAAGAACTTNAAGATTCTTAANTTGCTGAANCTNAANTACNAACTTG
AATTCNATTAATAAAAAAAGAATCCCTGNANTCAANGCTTTAANAGCCAATTNTTACCTAAANGGAN
TGNTCATACCTGNNGAGANCANNTAAATTTCTGTATATNCNATANAACAAATTGCAGATTACC

SEQ ID NO: 1475 ACNGATACCGGAAAGGCTGGATACCTNGGTTATTAGAGGATTTTGGAGATGG
AGGTGCTTTTNCANAGATCCATGTGGCCANTATCCACTGGATATGGGACNAAAAGAAAAAATGT
NGAATGCNCTNGCCATTCAAGTGGAATTCTGAAGGAAAAATTAAATATGATGCAATTGCTCGACAA
GGACAGCCAAAAGACAAGGTCAATTATAGCAAATACACTGACCTGGTTCCAAAGGAGGTTATGAA
TGCAGATGATCCATACCTGCAAAGGCCGATGAANAAGCTNTTNNAGANATAACATGAANATACA
AGAGTAGCCTTATAAAAATCTGTATNACANAANGTCGNACANCATGCCAGNTCGAGCAGGTGAC
AAATTGCTNCTTGCTCAATATATTCGANNCACACCATCTCTGCCAAGGANTGGCATTTAACCTTTG
GAGCTAAACANAGGGTTNTTCGATTGGTANANATGCACAAAGATCCAATGGNCCNTNCANGTTAA
GATTAATAANAAAAAATTCCCGNGGACNNTTCTNCTTCTGNCCTGNTTGATTCTNTNTCCGAAANAT
NACTGTAAAGGACAACAAGAGTGCG

SEQ ID NO: 1476 ACGCGGGGGCTAAAGTGTTGTCAATTTTGTTTAACTTTTCAAACAACCAACTT
TTTGTTCATTGATCTTTTGTATTGTTTTCTTTATTTCAATTTTCTGCTCTGATCTTTCATT
ATTTCTTTTCTTCTACTAATTTTGCATTTGGTTTGTCTTGTCTTTTCTAGTTCTTTAAGATGCATTAG
GTGTTTTTTTTTTTTTTTTTTTAAACGTAGGCACTTATAGCTGTAACTTCCCTCTTAGTATTGTTTCG
GTATCTTGTGTTTCCATTATCATTTGTTTCAAGGAAATTTTAAGNTTCCTTCTTAATTTCTTCTTTGA
CCTACTGGCAGATTCAAGAGAATGNNGGTTCTTTTTTTTTTTTTTTTTTTCAGGGCCCAAGACATCT
GAAACATTGNNTAATTTCTGGGGATTGGATANNGCCAAAACCTATTCTNGCTATAAAATTTCTATTTT
TATCCATTGGGGGCAGAAAATNTGCTTGNATTATTCAATTTTTTTTTTTTTTTTTTNGAACAAAAT
CTTGCTTTNCACCCANGCTAAAGNGCAGGGGCGCGAATTTGGTTAN

SEQ ID NO: 1477 ACATGTTTGAAGAAGTGCCGATTGTAATTAATAAACATGATCAATGTC
CTAATGTGGGAACCTGAAAAGAAGTCAGCTGTTGCAGATAAACATGAATTGCTCAGCCTTGCCAG

SEQ ID NO: 1491 ACCAGAGACTCTCCTATCTCACGGTTGAGGCAGACCCAGGATAGAATAGAGA
ATAAAAGGAATGCTTATAGGAAACAATTTTGTATGGAATGCTAGATGGCCAAGCCTCAGCCTTTG
GTCCAGTGCAACCCTTGCTCGCTTGTCACAGTGAAAAATTAGTTTGGTTAGAAGAACCATCTGG
AAACACACCAGCTTCTGCTACCTTCATGCTCATGTGTTAAAAAAGATTAACCAGTGTGAACATTCT
GATCTGTAAATCCAGGGACTGTTTTCTTTCCAATGGACTGTTTGGTTGGTAGAATAACCCCCAAA
GCTCAAAGCTAAAATGCATCATCAGTCCTAGTCGGCAGTTCCTTAANAATGGACTGGCGGCGTGG
TTGAGCTGATATGGAAAAGCTGCCCTTCTGCGAGANGACATTCTGCCATGCAAGCAACCAANTTTAAG
TTCAGCCTGAGGTATATTTNAGTNAGGCAGGTNCTGTGCTTNTNANAGCATAGAACCANTTTAAG
AGCAAAAAGGNGAGGAATCTAGNAAGACCGTTTGATTANATTTATCCATGGGGNGAAGGGAGG
GCAANGACCATGG

SEQ ID NO: 1492 ACCTGCATCAGCATTAGTGATCAACCTGTTAATCCAAGGNCTTTAGAAAAAC
TNGANATNATTCCTGCNAGCCAATTTTGCCACCTGTTTGAGANCATTGC

SEQ ID NO: 1493 ACAAGAATCGACCTCACTGTTCCACATGGAAACTCTGACCAGGNCTTCTCTGC
ACCATGATTGGCTGGGAAACTGAATGATCTGATGTTCCCCANGCACTGTCTCGCCATTGATCACCC
AGGAATATTCCTTTTGGTCCATCTTTGCTGGATTCAATNTGTTCCCAAACTTTTGGCTGGCAAGA
GCTGCTCTCCCATCAGCTCTTNCCTCCAGAGCAAGTGCTTGAAAATCATNATTCAGTTCATCCATG
GAACGCACCTGATGTTTCATGCANGAATGTTATCCCCAGTTCGGCCATCCGATGTTTGCTTTTATTAT
AGGACCGNNTNCTGCACTTCCTCCTNCCCCAAGCNGNTCACNANNCTGCCNCTGAANNATTTAGC
G

SEQ ID NO: 1494 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGCGNGNTCAATCATATGAACTAGAT
TTTCATTGTATACTTTCCAGGCATTACATCCATGCTGNGACATTAGTTCANATTCTCAATTCTAAC
TGCTTGATGCTNTAACTGGGCCATANAATTGNTTACACATTCTTGCCATGCAGNAATGTCATTTTTT
TTGACCANAGGAGGGGGCTGGAAGCTCATNTCGTTNCATACTGAGCAAATCAATTGGTTGTCNAN
CACCAGTCCTTTNAAATTNATTTCTCATTATNGTCAGNTTTAAAAGGNANAATANTCCNGGCTGNNT
GTNGCNCANGNAGTTCNTAATTAGGTCGGAAATT

SEQ ID NO: 1495 ATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTTCATAACAGGAGG
GGATCCTTTAGGACAGTTTGCTGTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAAAC
CTTAGACAGGGGAAAAAGGGACAATTACCTTCTACTATCAGGCNACTGATGGCACCTTCTCAT
CAAAAGCGATAGTTGAAGTGAAAGTTCTGGATGCANATGACAACAGTCCAGTTTGNGNAAAAAGAC
TTTATATTCAGACNCTATTCTGAAACGTCCTTCTGAAAAAATTANCATGCAGATCTCTGNTACAG
ACGCAGACATNCNGTCTAACGCCTGAAATTACTTNCACGTTATTGGGTTTCAGGCGCTNAAAAATTN
AAACTAGATCCACACNCACGNGAACTGAANNCGTCAACCCCTTGATCGTGAGGAGCAAGCTGTT
TATCATCTTCTCGTCAGGCCACAGATGGANGANGAANATCTTGCCAANCAGNTTGTGCTCACNCTN
GAANCGTGACNATAATGCCCCNNATTTTTNGCGACCTTATNCCNTTACCTGGGGTNGAAACACAA

SEQ ID NO: 1496 ACGAAGAAAGCATTTCCTTCAAAGAAAGGAAAGAAACCTAAATCTGTTATGGCAAATTTGGA
AAGATAAATATTTCTAGTCCCATAAATATGTGTTTGTGTTTACAAGATATGCTTGAATGATGCAAAT
CTATGAAGCAGGGATCTGTGGCAATCCAAATTCATCCACCAGAACTCCATCCTTGTTTTTTGTATC
AGTGGGAACACCTTCTGGAATTGCAGGTGCAGATGCTGCCTCATCCAAATAAGAACTGTCTTCATC
AGCCAGAAGCTCATACCTAGTGCATCCAACTCTGCTTCTAAATCATCTTTATNCAGNTCTTGGGT
GCCATAAACTGCGNACTNAANGGCTTNTNGAATTTTATTGTCATCTTCCTCATATCCTTAGCTGGG
CTNGTAAATCCTCAATCTTGGNCGGATCTTNACTTGCTTGNATGCCTTCTTATTTCCTTNTTCCNN
TCNTACATAACCGGNCTTNGNGTCCTCAAAGACTGGANGGNTAATTGGCT

SEQ ID NO: 1497 ACAACCAGGGCGAGAAGAAGAACGCCCTGGCCCAATATCAGGAGATGGAGA
AGAAAGTCAGCCTACTCAAGGACAATAGCTCTCTGGAATTTGACTCTGAGATGGTGGAGATGGCT
CAGAAGTTGGGAGCTGCTCTCCAGGTTGGGGAGGCACTGGTCTGGACCAAACCAGTTAAAGATCC
CAAATCAAAGCACCAGACCACTTCAACCAGCAAACCTGCCAGTTTCCAGCAGCCTCTGGGCTCTA
ATCAAGCTCTAGGACAGGCAATGTCTTCAGCAGCTGCATACAGGACGCTCCCCCTCAGGTGCTGGA
GGAACATCCAGTTCAAAAGCCCCCATCTCTTCTCTGGAGCCAGAGCCTGCGGTGGAATCAAG
TCCAACCTGAACATCAGAACAAATAAGAGAGAAATAAGAATGAATGAATGACCCCAAAATAGGG
TTTTCTTGGGCGAGGATGTGCTGGATTANGAAAGGTGACATGACACAGGCAGAGCAGTGGCAC
CCACCCAGAATACAGTGTGTGTTATTACGAGGAGCCAGCANTTGACCTAAGGCCTTCTNCTACCTG
GTATNGCTTTTGAGNCGGAACCTCTCTGCCCANAA

SEQ ID NO: 1498 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCCTTANAAAAAGNAGATCTTTTACA
TGGCTTGGCTCACAATTTAAGTGTTATAAATATNTATACATNTGATATAGTGGTNTAAATAGATT

AATAAATATACATCATTTTTTGGCTACACTTTGAACACCAACATGTAATNTTTGGGCTTAGCAGAAN
AAAACGATATGAATNACNNAANTCTATNTTGCNGGANACATTTACTNGGTTTCTCCTCTA

SEQ ID NO: 1499 ACTGGAGATGTATTTGATAACCAAGGTTTTAGGTAAATTTTCACCAGTATTAG
TTCTATTTGCAAACCTGAAAAATGTTGTAGGCTTAATGTAAAAATAACCACATTAGTGAACATTATAT
CTCTTAGAAGAAAGGCCATATTTTGGCTCCTGCTTCTGTAAAAATATTATTTGTTTGAAGGGGAAAT
AATGGTAGTGTGACCTTTCACTTAATTCCTACTCCCTTAATGTGAGAGAGACAAAATGAGCTGAAG
AAGGAAAATTCTGGAGTTCACCTCCCAACCTTGAAACATACTGACCGGACATCTTTGNTTTGACAAC
GATTTCTTCATGCCCCATNGCTAATTGCCTTGTGGATNACGGGACAACCCTNTTTGCNCAAGCTA
CAGCATCATTCGATGGTATCTTTGCANCAAAACCTGCANNGATAANGACANNCAATTNACTGCTN
CTGGGGNTTNGCCTTCATTACACCAATAGNGNTATTGACTTGAATATCNNTANTNTGGTTTTCTGCT
CCANNTGGTATTTNNACTTGTGCTNTGTGACCCCTCCCTTTG

SEQ ID NO: 1500 ACAAATTCCAGTGTGCAGACCACAACCTCAAAACAAAAAAGATCTATTTCTA
CTGGATCTGCAGGGAGACAGGTGCCTTTTCTGGTTCAACAACCTGTTGACTTCCCTGGAACAGGA
GATGGAGGAATTAGGCAAAGTGGGTTTTCTAAACTACCGTCTCTTCCCTCACCGGATGGGACAGCA
ATATTGTTGGTCATGCAGCATTAACCTTTGACAAGGCCACTGACATCGTGACAGGTCTGAAACAG
AAAACCTCCTTTGGGAGACCAATGTGGGACAATGAGTTTTCTACAATAGCTACCTCCCACCCCAAG
TCTGTAGTGGGAGTTTTCTTATGTGGCCTCGGANNTTGGCAAAGANCCTGCGCAAATGCCTTCACC
GATATTCANCTGGANCTACAAAAGTTNANTNTACTTCAACAAAAAATTTTGGAGTTNTAGGA
ATAAGGACGGTAATCCGCATTTGGTCTTNGATCTTACAGNAAATTTACTTGGTNTCGNANNTTGAGCA
GTTCTTAGNNTAAGAATGNGCTNTAAGCCTTGAAANCTGGNNTNTTTTTTGATGATTNANTNNTTA
T

SEQ ID NO: 1501 ACCTCAAAGTGACGGGGAGAATGGAACCAAGTTGAAAAACACTGCAGGATA
TTATCCAGGAGAACTTCCCCAACCTAGCAAGGCAGGCCAACATTCAAATATAGGAAAACACACAGA
TGCCACAAAGATACTCCTCGAGAAGAGCAACCTTGAGACACATAATTCTCACATTGACCAAGGTT
GAAATGAAGGAAAAAAAATCTTAAAGAGCAGCCAGAGAGAAAGGTCAGGTTACCATAAAGGGA
AGCACATCAGACTAACAGCAGATCTNTCAGCAGAAACTNTACATGCCANAAGAGAGTGGGTGCCA
ATATTCAACATTCTTAAAGAAAAAGAATTTTCANCCAGTATTT

SEQ ID NO: 1502 ACAGGAAAACGCTGCCGCGGTCCACAGTGTGCGATTCTGGATGACCACATTAG
CCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTT
CTGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTATCTGTTGTGTATTCCACTT
AGGAAGAAATGCCCAAAGAGGTCTGGCCATCAAACATAATTCTCTCACAAAGTCCACTTTACT
CAAATTTGGTGAACAGTGTATAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTC
CACCTCCATTACTTTGATNTCTGATCAAAATGTATAGACTTGGGTTTTGGTTTTTGTGCTATTTAGA
AAATNTTGNNTNAGCANTTACTNTTCNCTGTTGCANAAGNCTTTTTTTTCATAAAANNACTNTTTTA
ACANTTTGGGACTTCTTTGAATAATTANAAGNGCTAATTTCTGGNCCACCCCNACAGGAATTCTTA
TTAAGGAGGAGGAGAANGGNGGNTCCTTCTTCTTNGATGACNTTNTG

SEQ ID NO: 1503 ACGCGGGTGATCCATGGGATTTCAATTCTAATGACCATGTGAAGATGTTTGAGT
CCTCCTTTGCCTTTCTCAGAAAGAATCCTTCTAAGGCACAAATCCCTTAGATGGATAATGTAAGG
TATTGTTAACTCACTCATATTGAGATCATTTTTAGAGATAACCAGGTTTTATGTATCANGCACTAGAT
GGTTCCACCCTCATGGGATAAAACTGCTTACAAAGTATTTTGAAAGAAAAAACTGACCAAAATCTTA
AATTGTTACTAAGGCAATCACGCACAGGTGACCGTATGTCTTATCTGATTTGTTTTAACTCCTTGGT
GCCCAAACCTCAGAATGGGAATTTCACTGNCANNAATGANCATNCCCTGNNAAAGAAAAGNTA

SEQ ID NO: 1504 ACTCCCAATGGTGGATTTATTACTATTAAAGAAACCAGGGAAAATATTAAT
TTTAATATTATAACAACCTGAAAATAATGGAAAAGAGGTTTTTGAATTTTTTTTTTTAAATAAACA
CCTTCTTAAGTGCATGAGATGGTTTGATGGTTTGTCTGCATTAAAGGTATTTGGGCAAAACAAATTG
GAGGGCAAGTGACTGCAGTTTTGAGAATCAGTTTTGACCTTGATGATTTTTGTTTCCACTGTGGA
AATAAATGTTTGTAANNAGTGAATAAAAATCCCTTGACATTCTTCTGGACCTTNAATGGGAAG
AGGAAAAGGCTCGTGACCATTTGTTTTTTGNGGGTATAGTTGCTATTTNTAAACCTNCTTCAGAN
GNTTACTNAGGAGGNTNATNTACATATANCCATAATTTCTCTNGGACCG

SEQ ID NO: 1505 ACAGTGGGCATGCAGCGCCTCGGGACGACACCCAGCGTTTATGGGGGTGCTG
GAGGCCGGGGCATCCGCATCTCCAACCTCCAGACACACGGTGAACCTATGGGAGCGATCTCACAGGC
GGCGGGGACCTGTTTGTGGCAATGAGAAAATGGCCATGCANAACCTAAATGACCGNCTAGCGAG
CTACCTANAAAAGGTGCGGACCCCTGGAGCAGTCCAACCTNCAAACTTGAAGTGCAAATNAAGCAGT
GGGACTTTNATTTTTTTTTTTTTTTTTNTTTGT

SEQ ID NO: 1506 ACCCAACTAACCACAAAGCCAGGCCTGCTGGGATGAGGATAAAAATCAAAT
AAACAATCCTCTCAACGTCCAGGAAATGGCTGCCAGGCCTTCTGACTTCATGAAACGCCGGGGCC
NNCTGTGCTCTTCTATGCTGGGTCCTCTTCGTCCATTGCNACATATGNTGNTTGAATTCCTCATNNG
CTCNGNCNATTGGCTCTGCATGGCATAATTGCCTGGNGACCG

SEQ ID NO: 1507 ACCCATGATTTGGACACTTTGTGCGGGCCATTACTTATACTGCAAAGCGTCC
TTCANATATCAAATTCAAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGAAGTATGAACA
TATACAAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCCA
GTTATCTATGATAGCAATGGTGTCTGCTTTCAATGCCTCCCATCATCAATGGGGATCATTCCAGA
ATAACAGTNNATACTAGAAATATTTTATTTGAATGCACGGGAAGTCTTTNCTAANCAAAAATAN
GTNNTTGAGATTATTGTCACCATGTTACGGGATATTGNGGAGATT

SEQ ID NO: 1508 ACAGTTTTTATACTGAAGCTAGTATTGAGCTGCACTTGAATTCACATTCTTAG
CAAAATAATTGCCTGAGCACACACACATTCCACACGCATCATTAAAGGATAGCCATTTATCTTCA
TCTTCATCCTCTTCCTCTTCATCTTCTTCTTCTCCTCCTCCTCATCTTCTGGTTTCGTTT
TTCTTCTTTGAGCCTGTTGGCCTGCCAGGGCCCTTCTTCTGCTTCACTTTTGCCCTTGGCACGATA
TGCAGCAATATCCTTTTCATATTTCTCCTTTAGCTTANCTGCTTTCTGTTTCATATGGTTGTTTATCTT
TGGCTGACTGCTCAAACCACATTTACCCAATTTTTTGAGATCCCCAATGGATNAGGCCAGGGTGG
TNNCCTTTTGNCTTNTGGGCGATGTCAAAGCAAACNNGAAGAAGGCAGNNGGTGGCCTTTANGA
NCATTGGGGNCCTTTTTTCCCTTCTTNT

SEQ ID NO: 1509 ACTATTCCTTACAACCTGGAGTGGGTAGAAGCCTTATGAAAATTATACTGACA
ACCTGATCTCGTTTACTCCATGTAAATCACATTCTACCAACCTAAATTTCTGCCAAGTCAGTTCTC
TTTGGAGGAAGCCCATTAAGTCCATAACTGACTGGATGGTCCAGTGTCAATTTGATCTGCTTTTCAG
AATGGAAATTTATAATATAAATATATGTTTTAATACCACAAACACTGTGGGGCACTTGATATTTAT
TANTGGTGTATATGGTCCACTGGTTTTCAGGCCAAATCTAGAATTTAGTGATACTGGCTCAGAAGAA
TTTAAGTTCTATTCAANNTTTCTGGGTGNGGAGAACCTANATTTAAAANTGGCTNGNTTGTNTCT
TTTGGTTCACNATNTCTNNTTTTCTNTGNCCNTCCTTNANGTTGNGANAGGGTGTNTAATGTAA
TCTCCAGGAAAACATGGTGTCTNTTTCTNCGNTCGAATA

SEQ ID NO: 1510 ACTTGGTGAATATGAGGAGTATATTACTAAACTTTTCAACTACCACAAAGTTC
TTCCTATGAATACAGGAGTGGAGGCTGGAGAGACTGCCTGTAACTAGCTCGTAAGTGGGGCTAT
ACCGTGAAGGGCATTCAGAAATACAAAGCAAAGATTGTTTTTGCAGCTGGGAACCTCTGGGGTAG
GACGTTGTCTGCTATCTCCAGTTCCACAGACCCAACAGTTACGATGGTTTTGGACCATTTATGCC
GGGATTTCGACATCATTCCCTATAATGATCTGCCCCGCACTGGANCGTGCTCTTNAGGATCCAAATGT
GGGCTGCGTTTCATGGTNGAACCAATNCANGGTGAAGCANGCNGTTGTTGNTCCCGATCCAGGTIN
CNTATNGGANTNCNANANCTCTGTCCAGGCACCANNTTTCTTNTGG

SEQ ID NO: 1511 ACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGA
TTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAA
CTGCTCAAAGTGACGGGTTCTTGGTTGTCTGTCTGCTGAGCAGCTGTGTCAATGGAGATGGCCTCTG
CTGACTCAGATGAAGACCCANGGCNTAAGGTTGGGAAACACCTCATTGACCTTGNACAGCTGAC
CTTCTAACCTGCATTTTGAACCGACCAACNTTAAGTCCAGAGAGTAACTTGAATGGGAATAAC
GACNTTCCANAAGTTAATCTTTTGAANTTCTNNACACTGGNGAANAANCGAANAATGGACCGGN
GCNTGGAANANNCTTANTTTTTTGGAAACCGGNTTCTTGGNTATGGCNCNNANAAATCTANACTT
GGGCCCAGTCCCTTGNTG

SEQ ID NO: 1512 ACCTAGAATTCTTCAGCATAAATGCCCAAAGAAATGCATTAGCAATTGCAGC
TAATTGCTGCCAGAGTATCACGCCAGATGAATTTCAATTTGTGGCAGATTCACTCCCATTGCTAAC
CCAAAGACTAACACATCAGGATAAAAAGTCAGTAGAAAGCACTTGCCCTTTGTTTTGCACGCCTAG
TGGACAACTTCCAGCATGAGGAGAATTTACTCCAGCAGGTTGCTTCCAAAGATCTGCTTACAAATG
TTCAACAGCTGTTGGTAGTGACTCCACCCATTTTAAAGTTCTGGGATGTTTATAATGGTGGTCGCAT
GTTTTCTCTGATGTGTTCCAACTGTCAACTTINACTGGTCAACTTATGAAACAANACATTGCATAA
ACNCTTNACTTTCTCCTGTNTGGGGCCTCCAATNGAANGTNGCAAGGACAGATTGATCTTGTTCAT
CGAANCCTTAANAGTTGTTNAACTGACATCTNTGATTTGNGAACTTTGCNATGGTTACCAANAAGA
AGGCNTTTTTNAATTTATNCCTGGTNGAAGAAGGTAATGCCCTGNCACAAATGG

SEQ ID NO: 1513 ACAGTTTTTATACTGAAGCTAGTATTGAGCTGCACTTGAATTCACATTCTTAG
CAAAATAATTGCCTGAGCACACACACATTCCACACGCATCATTAAAGGATAGCCATTTATCTT
CATCTTCATCCTCTTCTCCTCATCTTCATCTTCINCTTCTCCTCCTCCTCATCTTCTGGTTTCGTTCT
TCTTCTTTGAGCCTGTTGGCCTGCCAGGGCCCTTCTTCTGCTTCACTTTTGCCCTTGGCACGATAT
GCAGCAATATCCTTTTCATATTATCTCCTTANCTTANCTGCTTCTGTTTCATATGGTTGTTTATCTT

TGGCTGACTGCTNANACCACAATTTACCCCAATNTNTTTGCNNAATCNCCAAAGGANAGGGCCNG
GNGGTNNAACTTTTGTCTNTTGGGCGATGTNCANANCNNAANNAGGAATAAGNCAGAATGGNGGCC
TTTAGGACATNNGGG

SEQ ID NO: 1514 ACAATGCCTGCATCCTGGAGTATAAACAGAGTGGCGAGAGCATTGACATCAT
TACGCGAGCCCATGGCAATGTCCAGGACCGCATTGGCCGCCCTCATAGACCGGCATTATTGGCA
TCNTTGACCCTGAGTGCCGATGATTGGCCTGCGTCTCTATGACGGCCTTTCAAGGNTATCTTCA
CTAGATCNCGATAATAAANAACCTNAGGCCCTCANCATCCGNCTGGAGGAGCTGCATGTCATTAG
ATGTCAAAGGNCATTTTGGGT

SEQ ID NO: 1515 ACAGACAAAGTGGGAGGTTTTATTTCTTGGTCTCTTCCTCCTTGGATAAAGAC
TTGATGATCTCCTCCTTCTTGGCCTGGAGGCGCTCTTACGGCGCTTGGCTGCTTCTTGGTCTTAG
ACCTGCGGGCCTCANCCTGGTCAGCCAGGANCTTCTTGGCGGCCTTGTCTGCCTTCAGCTTGTGGA
TGTGTTCCATGANAAATCCGCTTGTTTTTGAACACATTCCCCTTACCTACAGGNACTGTAT

SEQ ID NO: 1516 ACGCGGGGGTTCCTTCAGTCCGCTGGTCCCGAGCACGAGCTGTGAGGGGATT
CACTTGTGTGCGGAACCTCCTCGGAACCATGGCGTCCCTTTCCCTTGCACCTGTAAACATCTTTAAGG
CAGGAGCTGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTTCTTTATTGGTGCCATCGCCATTG
GAGACTTGGTAAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATTCTTCTAAGCAGTGGACGA
GATGCCTCTCTTATGGTAACCAATGATGGTGCCACTATINTAAAAACATTGGTGTGACAATCCA
GCAGCTAAAGTTTTAGTTGATATTGTCAAGGGTTCAAAGATGATGAAATTGGTGATNGCACCTACC
TTTGTAANNGTNNANGCATAATNNTAANGGNNAGCANAATNTTNNTTTGATAAAAGATTNTC
CCAGACCATNTTANCGGNGTGGAGNGAAGCCCNANGTTGNAAGAGAGGCTTGTGTGATTNTNAG
TTGNTCATGGTTNNGATNAGGTNAATTCTGCNNGATTTAATGATATTGGTGGNCA

SEQ ID NO: 1517 ACTTCAAGTTAAAGTGAATAACCACTTAAAAAATGTCCATGATGGAATATTC
CCCTATCTCTAGAATTTTAAGTGCTTTGTAATGGGAACTGCCTCTTTCCTGTTGTTGTTAATGAAAA
TGTCAGAAACCAAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTA
AGTGGTCGCTTACTTTGAGTGATCCTCCAACCTTCATTTGATGCTAAATAGGAGATAACCAGGTTGAA
AGACCTTCTCCAAATGAGATCTAAGCCTTTCATAAGGAATGTAGCTGGTTTCCTCATTCCCTGAAA
GAAACAGTTAACTTTCAGANAGATGGGCTTGTCTTCTTCCAATGAGGTCTGAAATGGAGGGTCC
TCTGNTGGANTAAAAAGAGGGTTNAACCTGTTGNTTGCNGGAATAAGGCNTTANTATGTTACCTCA
GTGGCATTATGAAAAGAGGGGACCAAGCCAAAGACTTAGTATATTTTTTTTCTTGTCCCTTC
CNCCATANCCNCCNTTNAGTCTTTGTTTTTTGTTTTNCAAAAACATT

SEQ ID NO: 1518 ACGCGGGGGCTGTGGTCTGAGCTAGAGGGTGAAGCTGGCGGAGCAGGAGGA
TGGGCGAGCAGTCTGAATGCCAGAATGGATAACCGTTTTGCTACAGCATTGTGAATTGCTTGTGTG
CTTANCCCTCATTCCACCATCTACATGGCANCCTCCATTGGCACAGACTTCTGGTATGAATATCGA
AGTCCAGTTCAAGAAAATTCCAGTGATTTGAATAANAGCATCTGGGATGAATTCATTAGTGATGA
GGCATATGAAAAGACTTATAATGATTCACTTTTCNATACA

SEQ ID NO: 1519 ACATGCTCCATCTTCCAGGAGGACCCTCTCTGTGGCACCTGGACTACCTGC
CCCCTGAAATGATTGAAGGTCGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTT
GCTATGAATTTTTAGTTGGGAAGCCTCCTTTTGAGGCAAACACATACCAAGAGACCTACAAAAGA
ATATCACGGGTTGAATTCACATTCCTGACTTTGTAACAGAGGGAGCCAGGGACCTCATTTCAGA
CTGTTGAANCATAATCCAGCCAGAGGCCAATGCTCAGAGAANTACCTNGGCCGCGACCACGCTA
AAGGCG

SEQ ID NO: 1520 ACGCGGGGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTGTGTTTT
GAATTGTGTTTTGTTTTCTTTGATGGGCTTAAAGAAATTATCCAAAGGGAGAAAGAGCAGTAT
GCCACTTCTTAAACAGAACAAACAAAAAGAAATTTGTGCTCTTTTCTAATCCAAAGGGTAT
ATTTGCAGCATGCTTGACTTTACCAATTCTGATGACATCTTTACGGACACTATTACTAAGACCT
TGTTATGGTGAAGTCTTTAGTCTTTTCATGTATTTTCCTCATGATTTTTTCTCTTTATGTAGTTGA
CTATGCCTTACCTTTGTAAATATTTTTGCTTGTGTTGCCGCAAANGGATAATNTGGGAAAAACAC
CCAAATNATNNGGCTCACTTTATAAANGAAAGNATTTAAAAACCTTCAGCTNNGGCTANACAGTA
TATTACCTTTGGNATNAAATCTTCATGGAGTGTCACCTCAAATGNATACTTTGGGTNNGGTACTT
TTCTTATNAAAATTTNNATAAACTGAATT

SEQ ID NO: 1521 ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCG
CAAAAGGCTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGG
AGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAG
TTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTGCTGTGCCTTTTTTTATTCGTG

GTCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGCCCCCAGC
ATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACCTTCTG
GACCCAGAAAAGCCAGGTTACAAGGTTTCGAACAAACAAGAANGCCAAAATTTGNCGTGATACAT
TCCTAGTNGNAAGAGACAAATTTTTACNTAAGANGGAAGAATCCAGCANGAATATCCAACAGTCA
AATCACTTGCCCCAAATNTGAACGGGTCAAAGAC

SEQ ID NO: 1522 ACTTTTTCTTTCTTAGACTTTGGCTTACTGGAAGATTTAATTA AAAAGGTAGA
GGAGAAGTAAATTTGCTGTAATAATTTTGTGTAAATAAAAACAAAGAGTTTATTTTATTAGATAAA
GAATGTGAAGTAAGCATGAAGAGACAGGCTTTGGGAGAAAATACCAGAAAGGGATTTTCAAAGA
TGGCATTGTTAATCTCCGTGTGGCCCTCGGTTGTGCAATCACAGATGAGCCAGAAGAGGGCCAGC
CCCCTACTTGTTTGGGCTCCGAAACTCTTACCAAACATCAATTTTTATTCTTGGGATAGAAAAATA
GTATGTGCTATCTCTAATACGCTACTTCGATATTTATTAAGAAGTATTTTAATGTAGTGTCCACA
GGCTCATTTTATTGAAAACAACTGACTATGATGATAGACAGCTCCTGATTGGCAAAAGTTTCGATGG
TATATTGAGAAATTAATTTTGCCTGCNCCCTAAACACTGACACATTAACTTAAANGGTTTCCATG
GAGAAAGTGGTAAAAGCTGTATTAGCCAAAATTGGCATCC

SEQ ID NO: 1523 GCCCTTNNCNGNGGCCGNNCNGNCGGGNCGCGGGGAGGGGCANGTGTNGCC
TCTGTGCCTCGTTGTCCCCTGGCGCTACCCGGACATNTTTCAGGGTGCCGGCACCATGAAGATCTG
GACTTCGGAGCACGTCTTTGATTACATCGGCAGCCACCCGTGGGAAACTGTTACAACAGCTGCA
ATGCAGAAATACCCAAACCCTATGAACCCAAGTGTGGTTGGAGTTGATGTGTTGGACAGACATAT
AGATCCCTCTGGAAAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGT
GAAGTCTCTTATTGGTGCAGCAAGAACGAAACATATGTGCAAGAACATTCTGTANTTGTATCCTGT
AGAGAAAACAATGGAACTTAAATCTACTAATTTTCAATTACAAACNTGGTTTCAAGTAGATGAG
AGACTTATATACAAACCACATCCTCAGGATCCCAGAAAAAACTTGTTTTTGACACAGAAAGCCCT
AATTACCGTGAAAGGAGTTACCTCAACANGTANCTTTGAANGACTGATGGGNAAGTCCTTCGGCC
NCGACCA

SEQ ID NO: 1524 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTGAAATTTANAACAAATTTTA
TTTAAATCTGAAATACAATTCCTAAAATATCAACTTTTCCANAAAACCGNGGCTACACAATAATG
CATTGCCTNTATCATGTTANAACGTGCATTANACTCAAATACAAAACCNCTGAAAACAAATCACCA
TCCTTCAACAATTTGAGCAAAGATAGAATGCCTAANAACAACATAGATGGACTTGCANAGGATGG
GCTGTTTTACTTCAAGCCCCATAAAAAAAAAAAAAAGAGCACAAATGCNTGGGTTTTTCAGGTNTNT
ACATTAAAGTTGAACCTTTGGCACTAGGAATCAGGGCGTTTTTGTNCATAGCATTAAACGCATATTA
AAAAATGTGTATGTGTCAAAGGGATNGGAACCACCACCATTCAGCAATGTTGTCAACTNNGGC
AANAAAATGTTCTACTGGNATGGTTCTTNTTTGGGCTAATTACCTGNATACNCTGGGGGNCACCTT
TTGAAAATNAANAAAAGGAGCCTACNCTTCTTTTATTTTNTNTTAA

SEQ ID NO: 1525 ACCTACATCAGATCTAACCTTGATCCCAGCAATGTGGATTCCCTCTTCTACGC
TGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTCAAATGAGACCAAAGATCTGCT
TCTGGCAGCTGTCAGTGAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGCAGCTCTAAGTGG
CTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGAGGA
GACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCACCTGTCCCAGCAGGCTGACCTGA
GGAGCATCGTGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTC
CAGTTTGAAGAAGGACTGGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGTCTATGGATCA
TGTGGGGACTGAGCCATCCATTAAGGAGGATCAGGTCATCCANCTGATGAACGCGATCTTCAGCA
AGAAGAACTTTGAGTCCTNTTCCGAACCTTTANCGTGGCCTCTGCAACTG

SEQ ID NO: 1526 ACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGT
AAACCCAAAAAAGCAAATGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCCCTTGGGAATCTG
CAAGAACCTCCCCTTTCCCTTCCCCAATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATA
CTAAATAAAAAGTTTGGCCAAAACCAACCATGAAGCTGCAAAGGTGCTTGCTCTTACTGTTTCAA
TTTTTGCAACTCTGTAGTGTCTCACTTTTAAAGGAACAGCTTGATTGCAAAGGAGAAAAATAGATAA
GCAATGAAGTTATCTCAACTTCCTAAAGGCTTATGACTTCTAAAAAGTGAATCTATCAGCATTC
ACATCAGATTTAAAGCATCAAATGCCTGTGAAACAGCAAAAGATGGTAAGCAAAGCAAACCTAGTTT
TTCCGTCTAAAGTCGAAATTGAACACTTACCTTCCTCATAGTACC

SEQ ID NO: 1527 ACAGACTTGTTTTGAGTGTTGAGTGGCAGGGACAAAATAAGGGAATGTTAT
TTTTTAAGAAAATTCATTTTCATTGTTGTCTCCTTCTTTTCTGTGAAAGTCTCATACTGAGAAAT
TGTATATTTTATATTAATCACTTACTATTGATTTTTGTTGTGATTTTCAAAGGTGGATTCCACAG
ATAAAATCTTGGCTATTGCCAAAACATAGTAAAGGGTCACGTGTGACTTTTTATAATAGGAAGA
AAATTCTGCCTTTGTGAGTGCACATGTCCACATTTTCATCCCTCCTTCCCTCAAACCCCTAGAGAGG
GGCATTAAAGAATTGTTGATGTATATGCAATGTCTGTTAAGCATGCACTATGTATTTTCATCCTCAT

TATTGGGTCTGGGACTGAAGTTTTANCCAGCATGGACCTAACCTACTTTTTGGGATAAAATTCTC
TGTTTTGTTACAGGCAAAATCTGGTATGGCGTGAATGCCATGGGTCATTCTGAATATATTTTTTCTC
GGAATTTTATCATTACCCCGANGGTTGCAATACCGTGCCTTT

SEQ ID NO: 1528 ACACCTTTGAGACGCAGGAAGCAGCTGAAAGAGCTATTGAAAAAATGAATGG
AATGCTCCTAAATGATCGCAAAGTATTTGTTGGACGATTAAAGTCTCGTAAAGAACGAGAAGCTG
AACTTGGAGCTAGGGCAAAAGAATTCACCAATGTTTACATCAAGAATTTTGGAGAAGACATGGAT
GATGAGCGCCTTAAGGATCTCTTTGGCAAGTTTGGGCCTGCCTTAAGTGTGAAAGTAATGACTGAT
GAAAGTGGAAAATCCAAAGGATTTGGATTTGTAAGCTTTGAAAGGCATGAAGATGCACAGAAAAGC
TGTGGATGAGATGAACGAAAGGAGCTCAATGGAAAACAAATTTATGTTGGTTCGAGCTCANAAAA
AGGTGGAACGGCAGACGGAACCTTAAGCGCAAATTTGAACAGATGAAACAAGATAGGATCACCAG
ATACCAGGGTGTTAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGCTCNCGGAA
AAGAGTTTTNTCCNTTGGTACC

SEQ ID NO: 1529 ACGCGGGGAGTCAGCCTGGCTCCTGTTGAATAGTCTACCCCCCTTGCACTCTA
CCTGACACAGCTGCAGCCTGCAATTCCTCCCTGCTGGGATTGCACTGGATCCGTGTGCTCAG
AACAAGGTGAACGCCAGCTGCAGCCATGAAGATCTGTAGCCTCACCTGCTCTCCTTCCTCCTAC
TGGCTGCTCAGGTGCTCCTGGTGGAGGGGAAAAAAAAGTGAAGAATGGACTTCACAGCAAAAGT
GGTCTCAGAACAAAAGGACACTCTGGGCAACACCCAGATTAAGCAGAAAAGCAGGCCCCGGGAAC
AAAGGCAAGTTTGTCAACAAAGACCAAGCCAAGTGCAGATGGGCTGCTACTGAGCAGGAGGAGG
GCATCTCTCTCAAGGTTGAGTGCCTCAATTGGACCATGAATTTTCTGTGTCTTTGCTGGCAATCC
AACCTCATGCCTAAAGCTCAAGGATGAAAAGAGTCTATTGGAAACAAGTTGCCCGGAATCTGCGC
TCACAGAAAGACATTTTGTAGATTTTCCAAGACAGCTTGTGAAAACCA

SEQ ID NO: 1530 ACGCGGGACAGAGAGCATCTCCGTGGCCAAAATCAGTGTCTATGGGACACTC
TGAGCTGTGCCACTGCCACAGGGGTATTCTGCCTTCAGGACTCTGCCTTCAGGAACACGGGTCTGT
AGAGGGTCTGCTGGAGACGCCTGAAAGACAGTTCATCTTCTTTAGACTCCAGCCTTGGCAAAAAT
CACCTTCCCTTTACCAGGGAAATCACTTCCCTTTAGGACTGAAAGCTAGGCGTCTCTCCACAAAA
AAGTCCCTGCCCTCATCTGAGAATACTGTCTTTCCATATGGCTAAGTGTGGCCCCACCACCCTCTCT
GCCCTCCCGGGACATTGATTGGTCTGTCTTGGCAGGTCTAGTGAGCTGTANAATTGAATCAATG
TGAATCAGGGAACTGGGGAAGGCTGACCTCCTCTTTGGTGTGCGGTAAGATAACCGACAGGGC
TGGTGAAGAGTCCCAGATGGCAGGATATTTGGTTTTCAGAGTAAGGACTAGGTGCACCACCATGAT
TGACTATCGATCAAAATGGTTGGAACCTAAAAATTTTAAATGAAAGGA

SEQ ID NO: 1531 ACAGAGTATGTAGTGGGCATCTGTTGAATGAATGCTTTTCCAGTAGCAGTGT
ATTACATACATATTAATATAATTGTCCTTACAGATAAAAATGAAAGCATCAAGTGCCAG
TGAGTGAGACCCAGGTGTTCTTCCCTCCACCCCTAGTGGTCCCCTGGGCAGGTCTTTTTTTTTTTGTA
ACACTCACCATTCTGTTCTGTAGTCAATCATTGATTGACTTGTCTGTGAACCTGCAGGAACCTGTTTC
ATAGTTTCATTAGCACAGAGTAACATGTTTGGCATGCAAGGTTATTTTGCATTCGATTTAAAGT
ATAATGTTGAATCAATGAAAAGTTTTGATTAAGCAGTAGTTGTAGATAGCTAAGTTTTCAAATT
ACTAATATCAAGTGGAGATGTTTTACTTTTAAAGGGTATTGCNTTTGNGATAGCATAAATAGTGGTT
TTCCTTTTTGTNATGTAAATTAATTTGCTNGCAACTTTTTGTATTCCCTTAGACTNGGGGAAGCTT
ATTGCCTTTACAAGTNCCTTCCCGGGCGGGCNGTTCAAAAGGGC

SEQ ID NO: 1532 ACTTGTATTTTCACAGATGGATTATCTGGGGTAATTTTCTTCAAAGGGAGTTT
GTTATACACAGTGAAAATGTATTATAGAGTAGAATAGTAAAGCTCTAGGGGTTTCAGAAAGCTTT
GATGAACAGATGACAAACATCTGAAACCCCTCCACACTGTTACCCAGTGTGTATATAATGACTTG
TTATAGCTCAGTGTGCCCTTGAATCCATACAGTTTCTTAAAAGACAATAAAATCTTATTAATAAAG
TTAATGTAACCTTCTAAGTTCTAGAAAATGCTGATTCTGTCTGCCCCATTCAATTGGGGGCTACTAAT
TGATTTGTTGCTTGGATTTCTGAGAATTTCTCTATTTGTAGGAGGGGTTTTTTCTTTTACGGTCTG
TTGATGACAATTACTTTATGGGTGTGATGCACCGATGGTAGCCAAGGAATNTGTTGGGGAAGNTC
GGAAAGAAACCTTTCTTTCTTTTATTTCAGTTAAAGTAAACCTTTATCCTGGATGTTTAGAATNAA
CATTAACAAGTTATTTTATNGGNGTTCAGAGAATTAAACNTGACT

SEQ ID NO: 1533 ACATTTCTTTTCGTGTTCAAACCACGGAGTTCACAACACAGCAGCACACACAG
CTGGGCGCTTTGTGGTCTCGGCACCCTCGGCTTCCCTTTCACGGGGCGCTTTTCGACTAGTAGAAG
GCTGGGCTAGAACCCTGGGGTAGAGCTGTGGATTCAATTTCTCAGACAGAAGATCTTGAAACTTTC
TCTTCATGTCTTCATCCTGAAGCCACGGGTGTCTTAAGGCTTCTTCTGTCTGTAACAGTGCCTTTGG
ATCCACTACCAACAACCTTCTTGACAAGGTCCAGAGCTTTCTCTGAGACTTCTGCCAGACTTCAGG
AATGAAGTTGTATTTTCCACTGGTGATCTGATCCTTCAGTGACACTTGAGTCTATGCTCAGAGAA
AGGTGGATACCCACTAAGGCAGATAAAAAGAATAACTCCTAAACTCCAGCAGTCCACAGCACGG
NTATACCCAACAGTCCCAACAGAAACAAGAACTTCAGGCGCCAAGTAGGGGGGGGTCCACATAA

GGGTCTCATGAGAGAAGTCTCTCCAAAAATCTTGGAGTGNCCCCAAAATC

SEQ ID NO: 1534 ACTTCTATTTATCTTTGATTTCAGTCTTGGCAATTGTTTAAAAAAAATCTA
GATTGTTTTATTAGGTTTCAGAGTATGTGGGGAATTATAGAATCCCTCTTTCATCACTTTGTGTATG
TCTTTTGTTAAACATATTTGTTATGCCTTATTCTAAAATTGAGCCTCAAACCTGGAATGCCTTGAAGA
CAGATGCTTCTATAGAGGTTCTTTGACCTAAATAGTTTCAGCATTTGTATTTTTATTCTGGTATTTAA
TCAGATTCCTAATCATAGCCCGTAAGAAGGAATGTTACTTTAATATTGGACTTTGCTCATGTGCTC
GTGTCCGCATTTTTTTTTTTCTTAAAATCATAGCCATATGGTAAATTTTCTATTTTGTATGGTTCTC
TTTTATTGATGGGCATGCAGGTGGGTGTTACTTGGAAATGGCCAATTTTTATTAAAATATTTCTGG
AAGAAAAAAN

SEQ ID NO: 1535 ACGCGGGGCTTTTCTAACTCCGCTGCCGCCATGGCTCCTGTGAAAAAGCTTGT
GGTGAAGGGGGGCAAAAAAAGAAGCAAGTTCTGAAGTTCACTCTTGATTGCACCCACCCTGTAG
AAGATGGAATCATGGATGCTGCCAATTTTGAGCAGTTTTTTGCAAGAAAGGATCAAAGTGAACGGA
AAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCATCGAAAGGAGCAAGAGCAAGATCACCGTGA
CATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCAAAAAATATTTGAAGAAGAATA
ATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTACCGTTNCTTCAGA
TTAACCGAGGACGAAGAAANAGGAGGAAGACGAGGATTAATTTTCATTTATCTGGAAAAATTTTGTA
TGAGTTCTTGAATNAACTTGGGAACCAAAAATGGGGGGTTTATCCTTCGTTNTTNCANNGTGGA
TTGAANCANAAAATTGGATATNNTTATNCAAAAGGCTTCCCTTNGGTNCCC

SEQ ID NO: 1536 ACAGATGTCTGCGTGTTCGAGCCCCAAGAAGATCTAGAGACCATGCAAGCAT
TTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACCTGGAGAAAGGTTTTGAAGATGAA
GTAAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACAAGCTAGCTATGTT
GACTGGTGTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATGAAAA
TTTGTTAAAGAAGGAGTTTCAGCAGCTTTTGCTGTGAAGCTCTTTAAATCATGGATAAATGAAAA
AGGTATCAATGCAGTAGCTGCAAGTCTTCGGAAAGTCAGCATGGATAACAGACTGATGGAACCTCT
TTCCTGCCAATAAGCAAAGTGTGAACACTTCACAAAATATTTTACTGAGGCAGGCTTGAAGAG
CTTTCAGAATATGTTTCGGAATCAGCAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGACTTCAAG
AACAAATGTCCCGNGGGNGATCCATTTANGGTATTAATTTTATATGTCAGG

SEQ ID NO: 1537 ACGGGGGCTTTTTCTCTCTTCAGCGTGCGGCGCCCAATTTGCGCGCTCTC
TTTTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTG
CCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCA
CAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCCACCGCCTGCCGACTTGTGTTCATGCCCTA
CGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGC
TTTGGGCAAATATGGTCTGCGGATGTGGAAGACACTACAGGAAGTGGAGCTACAGATAGTAAAG
ATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGCTAA
GGGAAGAACGTCTTTGCACAATATGAATCAAAGAAAGCCAAAAAACCTGCCTTGTGCGCAAGTC
TTTCATCTTACTAGATGTGAAACCTTGGGATGATGAGACAGATTTGGCGA

SEQ ID NO: 1538 ACGCGGGTGAGGGGATTGATTGACGCACAATCCTGAGTTCACCACCTGTGA
GTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGA
TGGTGAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCCAGAGGGCCAAGCC
TACGATGTTGACTTCACCCCACCTTCCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCT
GGGGATGAAGCTGCCAGAAACGAACCTCTTTGAAACTGAAGAACTCGCAAAATTCTTGATGATA
TCTGTGTGGCAAAAAGCTGTTGAATGCCCTCCACCTCGGACCACAGCCAGGCTCCTTGACAAGCTT
GTTGGGGAAGTTCCCTGGAAGTNACTNGCATTAACTCTACATTCTGCTGATCCCCAGATATTGA
NCCCCTTTGGCTTAATGGNCCCGCTCTAAANAGGGGTCTGACTTGGNCGCTTTGANCTGTTTGTA
TGAAAAAAGAAGATATGCAATGCGNTATINCTGANCTTAATGGATCCCNTNG

SEQ ID NO: 1539 ACAAACACTGAACGCCCTGATACACCTACAAACACGCCAAATGCACCTGGAA
GGAAAAGTTGGGGAAAGGGAAAATGGAAGTCAAAGAAATGCAAATATTCTTTCAAATGTGTAAA
TAGTCTCAAGGAAGATCATAACCAACCATTGTTTGGAGTTCAGTTTAACTGGCACAGTAAAGAAAG
GAGATCCATTAGTGTGTGCAACTGTAGGAAGCAACAGAGTTACCTTGATGAATGTCATTACAAAG
GAGAAATCCGTTGTTGCAATCTTACGTGGATGCTGATGCTGATGAAAACCTTTTACACTTGTGCAT
GGACCTATGATAGCAATACGAGCCATCCTCTGCTGGCTGTAGCTGGATCTAGAGGCATAATTAGG
ATAATAAATCCTATAACAATGCAGTGTATAAAGCACTATGTTGGCCATGGAAATGCTATCAATGA
GCTGAAATTCATCCAAGAGATCCAAATCTTCTTGTCTAGTAAGTAAAGATCATGCTTTACGATT
ATGGAATATCCAGACNGACACTCTGGTGGCAATATTTGGAGGCGTANAAAG

SEQ ID NO: 1540 ACATATTTTAAAATAGAATAAATTGTTAAACATAAAATTTTAAAAGTAGTAG
ATGTGCGTAAGAAAACCTTTGTAATAAGTTATGAGTCCACCCAGTAGCAACTTCTGGCATTCAAG
CAGGATTCCACTATGTAAATATCTGTAATGCATTTATAATAAGTTGTGTAGTTTGTCTGCATCCAT
ACTACACTATTTGCTAAAGTCTCAGTGCCATCTCCTAATGAGACTGACATTTTAAAAGTCTGTATG
GAATATCCTTGATAATTCAAGGAAATATCCCTCCTGCCTAAGTTCCAAACTGGGAAACATTCAAAT
TATATAAATGACATTTTCAGGACTTTAAGTATGAAGATAATGGGAATTTTATTGTTTTTGCTTTTAA
AATGAGAGCATTTTTATTGATAATTTTTTTTAAATTTTTTAATTTTAACTAATTCATTATTTTAAAG
TAATCAGTTTTTCAAATCTTGATTTTTGATATCATTATTCTAAGGAGNTATCCTNAAAGGCACAAA
AATTTGAATTCTGCAAGAAGGCTATTTTTTTTATTGGGAGTTTGA

SEQ ID NO: 1541 ACTTTNTTTTTTTTTTTTTTTTTTTTTTTTANANATGAGGTCTCGCTATGTTGCC
CAGGCTGGAGTGCAGTTATTCACAGGNGCAACCACAGGGCACTGCAGCTTTAAACTCCTGGGCTC
AAGCGATCCTCCTGCCTCAGCCTCCCAAATAGTTGGGACTAGATGCACGCCACCACCACGCCTGACT
CAGGACATTATNTTAAAGGTATTATCCAGGAAACAGATAAGGTCATTCTATAAAACACACGGCTT
TTTTTCTTTAGCTCAGTGTTAACAATGAAAGTAGATTCCACTATTGAAGCACAAAGTTGCAAATTGG
TAACATAGTGAACATATTGCTGTAGGAAAGGGGTTTCAAGTGTGGTGTGTTATATGAGCACTTGAA
CTTTTCAAGGNGTCATAAGCCAGTTATCTGCCCAAAGAATTTCCATTTTCAGGATTTCAGATTTCTCA
AAAGAAAACACTGNGGACATTTGGGNGCATGAACTTTTAAGTGGCAACAGCCCAAACAGGGCAA
GNTGTCCTTAAAGTCCCCAACACGGNCAGCATTACTGNGAATTACCATT

SEQ ID NO: 1542 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCNATTCCTCTCAAAGGCATTTGA
AAGGGATACTTTTATNAATATTCTGTGTAACCAATGTAAAAATAAAGTTCTGGGTNTAAACAG
TAAAAATAAAAAATATTCTACCTGAGNGNGTTAAATCAAGTGATTGTAAACAAAAACCTTCACAA
GNGNGGGCTTTNTACATGTAACCTGCCAGGCTGAAGGCTTACACCCTCNTGTTCTACAACACAGAT
CACTAATGATGATAACATGAGTTAAATTGGGATTCCTTGCCCTTCTGTGTGGCTTTTGGCTTCTAGGT
TCTATGACCAAACCTATTGACATATTTGAAGTCTGTATGCAGNCATTGTGTGATAAATCTACTTTAC
AGCTTTGCTTCTACCTGCAGCTTACATGATAACCATGCTGGGAAGTGCTACATATGCTTCATACAA
TNTGTTGCCCATCTGATAATAAAAAATACAAAGGNGCTCTTAAANCTAAACCATAAACCTTATTAG
AAAATTCTAGTTAAGTGGNTTGTTTTTCCNCATCNNTGTAAATCCCTT

SEQ ID NO: 1543 ACTATTTTTGCAGGGTTTGCACAGGCCCGTAAGTGTCTACTACTTTGATATAA
TCTGTATACATCCTGTATGCTGAGCTGGTAAATACATTGTAAATTACATATTAAATATTTTATCTG
CTTTTACAAGCGCAAGGTGCAAAAATATATACAATAGTCTCATTGATGACTGTAAAGTGAATTAAC
ATTTGGTGATTATGCCTAGCTTTTGACTAATATAAAGATCATAGCTCCCTTCACTTCTGTCTTAAC
TTGAACATGGCGTGTTTAAATTTTCATACATACTTTACTTGAATTATTGCTGTTGTCACATATTTT
GCCTCTGTGAGTTCACTGATGATTGAGCAGTAGCATTTCCTTTTGGGTTTTTGTGTTGTTATTAT
AGAAGAGATGACTTCTGCTGATTTTGCTTTANAATGGTTACCTTAGAAGAATTTGGGTGGCTCATG
TCGAATTTCACTTNTGCAATAACTTTTCATTTTCTCATAGCTTTATAAANATGGGTTCAGNGGGTAT
TGAGCNGAAGAAAGANATCCCCA

SEQ ID NO: 1544 ACACACCTAGTTCATAATCCTCATAATTTATCAACAAACACAAAAAAGTGTCT
TACTTGAGAGTGAGTGTGTGTGTGTGCGTGTGCACGTGCACACATGTGCACGTTTGTATGTATGGA
AATAAACTTATAAATGGGGACGTATTGGAGAAGGAAATACATAGACCTACAACCTTTGAGCAAATA
GCAGTGATGTTTTAGGAACTGAAATGTCACACTTAAAGTCTTCAGCCAGCTACTTCCCTATTTTTG
TGGGGAGAAGAGGGCCTGATTAGAACTGTTCTGGTTGTGTTGGCGGGAGGGGAATAATTTTTGTT
CAGTCTTCTTAGTGACCAAACCTTTAATTTTAAAGAATAATATATTGACTTACTGAACTGAAGCATT
CTGAGTTGAAAGGAGCTCCAGAGGAGTGAGTTCGTGTTGCTCAGATGTTAAATCTTGCTCACC
TTCAGAGCAGAGGGAATCCTATCTTCANATATCCGNCCATTTTCATCTCTTAATTGGTAGTCAAAA
GTATTGACTTGAGAAGTGTGCTCTGGTATTCTGGGGTCTGAAGCT

SEQ ID NO: 1545 ACATCACTGTGTCCCTAAAATAAACCACCCAGTGAAAAACTCCAGCCAGT
GAACTGGAGGGTGTTCTTTTTGGCCACGGTAAACTGAGGGATTATGATGAAGCTGAAGTTCAGGA
TGAATGAGAAAATGTTGAACTTCAAAGCCATCTCAGAAAGTTGAAATAGGAGAGGACGCTGGTT
CCAAACTTGCCTCCAATGATCTTCAGCCGTCTTCTGCCACAGGCTGATGGAATTCAGAATTTCCGA
CAGGCTGTTCTTGATCTCCGATAAGCCCGGGAAATGGAGTTCAGACACTGAATACAGCAATTGA
GCTGAAGGATACGATGGGTCTGTTTCTTTTCTTTGTCAACTATTTTCTTAAGGTTCTTTTCTCT
TCCATGGTCTTGGCTGGTCCGTGATGGCTTTAATCTGTCTCTGATGTCATGGGTGATAAGGGGATG
CGATTAACCTTCTGTCTTGGGGTGACTTGTGCCAATCACATTCAGACAATGGTGGGTTTCCATAAG
CATGGACAGGGACCACTTTCACCTACATAAGCCAGGGTTCACATA

SEQ ID NO: 1546 ACACTGAGCCCAAAAAGGCCCGTAGCCAACACTATGACTTGGTTTTAAATGG
CAATGAAATAGGAGGTGGTTCAATTCGAATTCACAATGCAGAGCTGCAGCGTTATATCCTGGCAA

CCTTACTAAAGGAGGATGTGAAAATGCTCTCCCATCTGCTCCAGGCTTTAGATTATGGGGCACCCC
 CTCATGGAGGAATTGCCTTAGGGTTAGACAGACTGATATGCCTTGTCACTGGATCTCCAAGCATCA
 GAGATGTCATAGCCTTCCCAAAGTCCTTCCGGGGACATGACCTCATGAGCAATACCCAGATTCTG
 TCCCTCCTGAGGAAGTGAAGCCCTATCATATCCAAAGTCTCCAAGCCAAGACTCCAAAGCAGAN
 AGAGCTCATTGAATCATGCATACCATGCAGAAAAGTTGAGCTTTTAGGTTTTGCCTCTTTGCTTCCCC
 AAGGCTAAAGTCAGATCTAGAGTTCTGCCNCANGTCTAACAATCAAGTCTTTTNGATGGAAGGAA
 TCCAGGCAACATTTTTTNCCCCACGAAANAAACNNGATTANAGATACCC

SEQ ID NO: 1547 ACAGTTTGCTGCAAATGATAATTTAATTTGGATAATGCTTTAAATCATTGATT
 TCTCATGAAATTACTTTTGAGTGAAAATTTGACAAGAATTTCTTTATACTCTCTTCTTTACCAAAC
 GTATTAGAAGTCCCCATAGTCCAAAATAAAATGTAACCATAGAATGGGGAGATAACTTTAGTCAA
 AGACCAAGTAAATATTACCTTCTTTGCAGAACTCCAGGTTGTAGTCACGTAAGTGTGGCCACTT
 GTTGCTTAACTTTTTGGACAATGGGAAAAAAAACAATAAAAGCTAAAATGTGGTCCAGCATAT
 GAAACTCTTCTCAAAAACAGAAGAAAGTCATGACCATTGTTGGGAAAGTGTTTACATTTCCAATG
 AAATTTCTATTCCATTGATCTGTTTGGATGATTGCTTCAACCTATTTGGCTCTAGCCCATAAATTGTA
 ATTGATTCAGTCATGTAAAGAACCCTTTTATCTTAAGCTTAGAATTTATAACCAATGGAAAAGCAG
 GAAAGGTGGTTTTTCATTCACTCTAATAATTGNGCAGGGATAAGC

SEQ ID NO: 1548 ACAAAATACAACCTATAAAAGCAAGGAACAATTAATGCCATGCAAGATTTTAA
 ACTAAAAATGGCATAGAAATGCAATTTAAACAGCAAACCTCAAATTCACATAACACTCAAGATAA
 AAGGTCAGCAGTAAGTTCTACTAACGTTGCTTAAACAAGGATTTAGAAAAGGAAATACATTCTCTT
 TGCTGGTATAATGGTATAAATCAGATCTTCAAACTCTATGGGAACGAGTCATCTCTCTGCTCTAT
 CTCAAGAAATTAGCTCTTTTACAGTTGTTTTATGAAATCTTTTCTTTCAGTTAAATCATAAGTAGG
 ATAATTTTCATAGACCTTTTTGCAAATCTGTTTCATTGTGACTTCTTCCAAGTTAGCACTGGCCAGT
 AATTTCTTTATTGTTTCTTTAACTCTTCATCTGTAGGGGGTTTCTTCAACTTTTAAATTAAGGTTT
 ATCATCTGAACCTATCCTCAGACTCACTTTCTTTTTTGGGAAGTGGTTTTGATTCTTCTTGGGNGNG
 CTGCTATCTGCTTTTCTTAACATTTGGCACTTTTCAACAAGATT

SEQ ID NO: 1549 GGACAAAGTTGTATGACAGGGCATATTCTTTGCTTCCAAGATTTGGGTTGGGG
 GCACTAGGGGTTTCAGAGCCTGGCAGAATTGTGAGCTTTAGTCTGACATAATCTAAGGGTATGGGG
 CAAGGATCACATCTAATGCTTGTGTTCCCTATACTCTATTATATAGTGTTATTTCATGATTCAGCTGA
 TCTTAACAAAATTCGTAGCAGTGGAACCTTGAAATGCATGTGGCTAGATTTATGCTAAAATGATTC
 TCAAGTTAGCATTTTAGTAACACTTCAAAGGTTTTTTTTGTTTGTCTTAGACTTAATAAAAGCTT
 AGGATTAATTAGAAGAAGCAATCTAGTTAAATTTCCCATTTGTATTTTATTTTCTTGAATACTTTTT
 TCATANGTTATTTGTTTAAAAAGATTTAAAAATCATTGCATTTGGTCAGAAAAATAATAAATATA
 TCTTATAAATGNTTGATTCCCTTCCTTGCTATTTTTATTTCAGTAATTTTGTGTTGGCATCATNTTNA
 CACCCGAAAAAATAAANGATTTTTTAAAGGCNTATANAGNCCA

SEQ ID NO: 1550 ACCAATAAATGATGTGTTAGCTGAAGATAAGATTTTGAAGGAACAGAAACA
 ACCAAATATGTGTTTACTGATATATCATATAGCATACCACACCGGGAGCGTTTTATTGTGCTCAGA
 GAACCAAGTGGCACACTACGCAAAGCCTCTTGGGAAGAACGGGACCGAATGATACAAGTTTATTT
 CCCAAAAGAAGGTCGTAAAATTTTGACACCAATAATTTCAAGGAAGAAAATCTTAGGACTATGT
 ATAGCCAGGACAGGCATGTTGATGTCCTCAATCTCTGCTTTGCCAGTTTGAGCCAGATTCCACAG
 AGTATATCAAGGTTTCATCACAAGACCTATGAAGATATAGATAAACGTTGGAATAATGACCTTTTA
 CGTTCAACAAGATACTTTGGTGGAATGGTGTGGTATTTTGGAATAATAAAAAANNATGATGGNT
 TNCTGATTTGCCAGATTTTCAGAGANATTTAATCGNTGATGCCACCAACTTTGGTCCANCTTGATC
 ACGTGCTTCCATCCANNATGGCCANTCCGGCTCAAGGGGCCAAGGA

SEQ ID NO: 1551 ACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGG
 AGAAAAGGGTGCGGAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCAGTTCAAGGCAGTAAAT
 ATGCAGCAGACCGTAACCATATAGACGCTATCCACGTCGTAGGGGTCCTCCACGCAATTACCAG
 CAAAATTACCAGAATAGTGAGAGTGGGGAAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCC
 AGGCCCAACAACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTACATGCGGAGACCCTAT
 GGGCCGTGACACAGTATTCCAACCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGTGACAACC
 AGGGTGCANGAGAACAANGTAGACCAGTAGGCGAGAATATGTATCGGGGATATAAACCACGATT
 CCGCAGGGGCCCTCCTCGCCAAAGACAGCCTANAGAAGGACGGCAATTAAGAAAGATAAAGAAA
 ATTCAAGGGAGATGAAACCCCAANGGTCGGGCAGCCACCTTAAACGTCGGGTCTTN

SEQ ID NO: 1552 ACTCAAAGACGAATCATGAAAAAGAAAAAACTTTATTTCAAACAGGTTTCAG
 TGATATATGTGTGTGCTACAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAACGTATGATGTG
 GGCTGGGCAAGGTGGCTCACGCCTGTAATCCCAGCACTTTGTGAGGCGGAGGTGGGCTGATCACC
 CTGAGGTCAGGAGAGACCGGCCTAGCCAACATGCTGAAACCCCGTCTCTACTAATAATACAAAAA

TTAGCCAAGTGTGGTGGCGCGCACCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCG
CTTGAACCCGGGGGGCAGAGGTTGCAGATEACGCCACTGCACTCCAGCCTGGGTGACAGAGCCAG
ACTCAAAAACAAAACAAAATAAAAACAAAACAAAACAAAACAGAACTGCATGATGTATAATTTTGACA
TTATGTGGGAATGTTTAACTTCTGCCAAAATGTAGATTCAATCCACATTATGCCCATTTTATATT
TAATTTTAGTCCCTAAGTTTTTCATTACCCAAAAAANGA

SEQ ID NO: 1553 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTAGTCTATACATTTATTGAGTAAAAA
CAAAATCAGTGTGACACAGTTATATTTGATTGGGTCAAATTTGGCTGATGTCCAAATGCGGCAN
AAAANAACGGCGGGGCGAAGGGACACAGTGTGCTGACAAGGTGACACTGAACACAACAGTTTT
CCTTTAATTGTAAAAGCGGGCATCGCACAGCTGGTGTGAGTCAATTAACCAAGGCAGGGAGGGGA
CTCAATGTTTTACAAGCAGAGGGAAAAACCAAGTAGGCAGAGAACTTTCAAGAGAGGAGAGGGC
CAGAACACTGAGAGAAAAAGCTGCAGCANAGGCCTGCTGGANAACAGTGGTCGGATCTGCTGGC
TCACTTGGGGAACACAGTGACCACTTCATAACCTCANGTGGTGTGACTCGCTCCCGGGCATGCTT
NTACAATAGATTTGATCCTNCACAAANAATGGCCCTTCTGTTTCANGTTGGNGCCCCAGCAGTGC
ACACCTAACACTCAGGGTGGNGGGGGAACGGCCCCGNAGNTTACAAACA

SEQ ID NO: 1554 ACACCTTGAAGGCGAGGTTAATTAATCCTGTTGTGGAGTTTGAGGGCCGGA
ATTTAATTTTGGAGTTTATTTAATATCGGGAGCAGATTGGGTAAATAAAATGTATATTGAGAATA
AGACGGCCTTTTGACCTTTTAGGGTCTAGGGCTGTAAAGCGTCTCAGGGTTGCTGCCGAACGAGCC
ATGAACTGGGCTGGGTTTTATATTTGATGAAAAAGAGCCTAAACGCTTCTGATTTGGGATAAAGA
AAAAGGAGCATTAACTTGACTATGCTCTAGCTCCAGCCACCTTTTAAAGAGTAAATTGCTGGGC
AGGTGGGGAGGGCTAGTCAAGGAACTGTAAGCCGACAGGTGTAGGAGGGGAGGTG
ATAAAAAGATTACAGGGTGGAGGAGTGGAGCCTGAGGAAGAATTGGGACCTAACTTGGCNTGGA
AAGGAAGGGGAAANGGCANATGGGTTGTANAAAANGAAGATTANACACACTCANCAACCCCTG
GGGTTTNGGACTGAAGGGACAGGTGGGGAAGGGAAAAAAGGAAAATTGG

SEQ ID NO: 1555 ACGCGGGGGCGTCTTGTTCTTGCCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTG
TGTTGGGACTGCTGATAGGAAGATGCTTCAGGAAATGCTAAAAATGGGCACCCCTGCCCCAACTT
CAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGAA
AATATGTTGTGTTCTTCTTTACCTCTTGACTTCACCTTTGTGTGCCCCACGGAGTATTGCTTTT
AGTGATAGGGCAGAAAGAAATTTAAGAACTCAACTGCCAAGTGATTGGTCTTNTGTGGATTCTCA
CTTCTGTCATCTGGCATGGGTCAATACACCTAANNAACAAGGAGGACTGNGACCCATGAACATT
CCTTTGGTATCANACCCNAAGCCGCACCATTGCTCAAGATTATGGGGGTCTTNAAGCTNATGAA
NGCATTTCGTTCAAGTGCCTTTTATCATTGATNATAAGGGNATTCTTTCGGCNGATNACTTTNAAT
GAAC'TNCCTNTTGGCCNGTTCINTNGGATGATACT

SEQ ID NO: 1556 ACTTTTAAAAGTAAAAAATCAGATGATTCTTTTTTGGGGAGGAGGATGTGCG
AGTGGCTAATTTGAAACCAAGAATCTCCTTTAATTTCTTTGTCACTGCACCTAAAAATGTGTCTGAT
ATCATTCCTAGAACTGAAGTTGAAAAGGCCATCAGGATGTCCCGAGCCGTATCAATGATGCTTTC
CGTCTGAATGACAACAGCCTAGAGTTTCTGGGGATACAGCCAACACTTGGACCTCCTAACCCAGCC
CCCTGTTTCCATATGGCTGATTGTTTTTGGAGTTGTGATGGGAGTGATAGTGGTTGGCATTGTCATC
CTGATCTTCACTGGGATCAGAGATCGGAAGAAGAAAAATAAAGCAAGAAGTGGAGAAAAATCCTT
ATGCCTCCATCGATATTAGCAAAGGAGAAAAATAATCCAGGATTCCAAAACACTGATGATGTTCAA
ACCTCCTTTTAGAAAAATCTATGTTTTCTCTTGAGGNGAATTTGTTGNATGTAAATGTTAAATCA
TGGGTTAGAAAAATTTAGATNGATAAAGATTCAATAATGTCCAAACTA

SEQ ID NO: 1557 ACTTTGGCCTCTCTGGGATAGAAGTTATTTCAGCAGGCACACAACAGAGGCAG
TTCCAGATTTCAACTGCTCATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGT
TTGATCTCCACCTTGGTCCCTCCGCCGAAAGTGCCTTTCTGGTGACAATAATACTGCAAAATCT
TCAGGCTCCAGTCTGCTGATGGTGAGAGTGAAGTCTGTCCAGACCCACTGCCACTGAACCTGTCT
GGGACGCCAGTGGCCCTGCTGGATGCACCATAGATGAGGAGCCTGGGAGACTGGCCAGGTTTCTG
CTGATACCAGGCTAAGTAGCTGCTGGCAACACTCTGACTGGCCCTGCAGGAGAGGGTGGCTCTTTC
CCCTGGAGACAAAGACAGGGTGCCTGGAGACTGCGTCAACACAATCTCTCCGGTGGTATCTGGGA
GCCAGAGTACAGGANGAAGAAAACTGCGCTGGGGTTCCATGGTTCCCTCTGGGTCCCTAACTGA
GCANCTCTTTCCCGGTACCT

SEQ ID NO: 1558 ACGCGGGAGTTGATGATTTTCTTTTAAAGAAATTAGTTTATTTAAAAGCAAGA
TAGCCTGGGTTGGGAGTTAGTGCATATCATCAGCCCTCCATCTAATGTGATTGCTAAGATGTGCAG
GATAGGACAGCTTAGAATGAGTGCCTTGACACCTACATATGGCTGCATTCCATACCTCAGTGAAG
AAGCCGAAGGATGCTGACACACAGTGTGTGGAGGGCATTCNGAGAACTTTTGCAACAAGTGT
ATTAATGNGATTGGTTTTCTTTTGTTTTAAAGCTAAACATCTAAAACAAATTTCAAGTTAACAGTTC
ATACAACTCAGATTTAGTATTATTGNTTATCATAAAACATATTATGTTCTAGTTTTTAAAAGACC

CCNAGTTGATTTAATATAATTTATTGGCATTTTTTGCNGAANAGGNTTAAGTCNNATTAATNGATT
TTTAAAAAAGCCAANGAAGGCNCTNGNGTCNAAATTTAAATGTTTNATAATAAAAAAT

SEQ ID NO: 1559 ACGCGGGATCACCTACCACTGCAAGAACAGCATTGCATACATGGATGAGGAG
ACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACTTGTGCTGAGGGC
AACAGCAGGTTCACTTACACTGTTCTTGATAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAAA
GACAATCATTGAATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGA
CATCGGTGGTGCTGACCAGGAATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTC
AATCTAAATTAAGAAAGAAATTTGAAAAAATTTCTCTTTGCCATTTCTTCTTCTTCTTTTTT
AACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATCTACTTGCTTAAATTGNGGGCAAAAGAAAA
AAAGAAGGATTGATCANAAACATTGNGCAATACAAGTTTCATTAACCTTCTTCCCCGCTCCCCAAAAA
TTTGAATTTTTTTTTCAACACTCTTACCCTGGTATTGGAAAATGTCAACC

SEQ ID NO: 1560 ACCCACCACCTTCTTCTCCTACATATCCCTTCCAGATGGNCATCCAGACTCAG
AGCTCTCTACAGAGAGGAAATTCTCCACTGTGCACACCCACCTTTGGAAAGCTCTGACCACTTG
AGGCCTGATCTGCCCATCGTGAAGAAGCCTGTAACTCCTCTGCGTCTATCCTGTGTAGCATACT
GGCTTCACCATCAATCCTGATTCTCTCTAAGTGGGCATTGCCATGTGGAAGGCANGCCAGGCTCA
CTCACAGANTCAAGGCCTGCTCCCTGTANGGTCCAACCAGACCTGNAANAACAGGCCNCTCCATT
NGCTCTTNANATGCCACTTCTAANAAAAGCCTAATCACAGTTTTCTCTGGAATTGCCANCTGACAT
NTTGAATNCTTCCATTTACACAGAATGCAACCAAGTCACACGCTTTTGAATTATGCCTTNGTAGA
GTGTTGCATTTCNAAAGTGCANNAGGGACCATAACGGGTCTTGATNCAGTAANAATGGCNNGGT
TTNGTGCCATCCTGNANCTNATAATGNGGANTGTTTGCCT

SEQ ID NO: 1561 ACTTTTTTTTTTTTTTTTTTTTTTTTGGGGTCCAAAAATGGNGATTATTTATGGC
TTTGGAGTTGGANATTTTTGGTCCAAATACTTCATGGAATCCTGCACCCACTTNTNTTGGGGTCG
GCACAAATATCCTTGGCCAGTTTGGTCTTGAANATCACAGCTTTCTGGGGACATTTGCCACTGGTG
ATTCTCCTGTAGCTCTCTANTCGCTGAAGGGGTATCTTCCTATTGGCCAGGTTAAAGCAGCAGGTG
GTTGGGACANAAGCTGGCCAGCGAGCCCTGGGGGTGAAGGCAGCTGCTATNAGCAGCAGCC
ACAGAAAGTGCTGCGGAGACCTTCATGTTGGAGGCTGAAGGTGTGAGCTTTGGCGTGAGANGTGGT
GGTTCTGGGTGCTCAACCTNTCTTCCCGNGTACCTNGGNCGCGACCACGC

SEQ ID NO: 1562 ACACAGATTGGCTTCATATCAATTAAGAATGAGATACTTGACTGGATTTTGT
TATACTGCTTCTGCTCCTTCCAACTGACTGCAAGAGAGAAATTTAGCTGTTTGATTTACTTAA
AACCAATGGATTACAATGGATAATTCATCTTTTGGGTATATTTTACTATTATTCAAAGCCAAAT
GATTTTCATTTAATTGTAATAATACTGACAAAAATCAGTATGTTGTAGCTAATATGTTTTATGCAT
GAGAATTATTCTTAAAGTTTGTCTCCCTGTTTATTACACAGATCAGGAATAGATTTGTTCAGTTCA
GTATTTATTGGATACCTCTATTGGTCAGGCATTGTGTTAAGCATATGTGAATCAAATGAACACA
ACTTTTCTTTGAGTCTGATACAGTGAAGGAGATAAACACTTCTACAACCTTAAATTTAATTTAAT
AGCAGTAGAAAGAGAACATAAGGGAATAGAGTTTACCCANAAGCAGGGATAGAGAAAA
TATTTACGGAGAAAATCACATATCCATGGGGCTCGA

SEQ ID NO: 1563 ACAAGCCTCACCAAGGGCAACCCAGAAAAGTGAATGAGTTTGTCTTCTCCA
ATCATGACTTCTCGATAAGTTTGCAACTTCCAAGCTTCACCAGTTCTGGGTGATCAAAGGTAGAG
GCAATTTACCACCTGTGACAAGAGCTAGGCGTTCCACACCTGCAAAATCTGCATGCTCAATAGCC
ATGACACCAGCAGCACCAAGAGCTGTTCAAGGATAATTATAAATTAATTGCCTGTTAATAAAGCA
ATTTATTCCATGCTTAAGAATACGTTCAACTTTCTCCTTCATTTTTCTTTTCCGCATGTTCTATTT
CTGCAACCTTTGCTGTAGAGTCAACTCTTACCCGGGAACCAAAATATCTTTATTTGTCTGTATCCAT
ACCAGTATTTGCAATAAGAATTTAGCATTTTCAATTCGTTTTGGTTGATTTACTCCAATTTTTTAT
CCAACAGGAAGCCTTATCTAAATAGGAATCTGCCAACTTCTCCTANCTTCTTGATAATATGAAT
TGNCNACAGGGTTGCCAGAACCTTTCAGTCTGAGAACTGCT

SEQ ID NO: 1564 ACCTATTATATAGAGGGATAGCTGAATAAAGTCTGTCTCAAAACCAGTGTTA
AATCACTCTCAGGGTTGAGAAGAAAAAGGGGAGTCTAAAATCACAACAAGTAAAGACATATCT
AGGACCCTTGTCTTCTGGATCCACGCTTCTTCAGGGTCTTCATCATTATAAATGTTCTCTGCCAT
TTGCCACACTTGATGATATTGTCTTCTGATACANGAACAAATCACCCAANGTTCATTGGGGTTC
AGGAGAAATCAGATATCTTGGCAGTATGACCACCATGAATAAACAACACTCTGGTGGCCCGTCT
TNTGCATCTTCTGGGATTGTTCTCTCCAATTTACTTAAATCCANACATTNNCTGCGANCAG
TACCTTCGNCCGACNTTCGCCGGGGACCACGCTANGNGCGAATNTTNANTCNACACTTGGGCNGG
CCGTNCTTGTGGATACCGA

SEQ ID NO: 1565 ACTGCAGAGGTATGTGCAGAAACACCCACCCATTTAAGCTTTCATAAATAC
AAGGCATCATTTTAAACCATTTCAGTAGAATAAATTAATAAATATTGCATTTCTATTGGCCTGCTTT

GCTTCTTGAGCTGGCCTGGAGTGCTGTTTGTGACACAGAAGACACAGTAGTTAATTAGTGGCTACC
 CCAAGCTCTTTAGACTTCAGCACTTCTCGCTCTTCAAGCCTCAGCACCTTTTTTGAGCAATAATGG
 TATTCTTCATTAGCATTGCCACTGTATGGGGCCAAACACCTCCAGGAAGTGGAGTGATATACCCAG
 CTTTTTGTCTGACTCCTTCAAAATCCACATCTCCAACCAACTGGGTTTGGCAGTTACAGGATCGTG
 AACTCTATTTATTCCACATCAATGACTGCTGCTCCTTCTTGATCATATCTGGCTGTGATCAAGAT
 TTGGGAATACCTGCAGCAGATATTTACAATATCTGCAAGAATTGTATGTTTCTTCCAAGTCTCTTT
 GGGAGATATCGATGAGATATTGTAACAAGTGGGATTACCNCT

SEQ ID NO: 1566 ACTCGTCAATGGGCTCGGTCTATATATACCACCTCGAAGCCCCGTTTCCGCACT
 CGTCCACAAAAGCTGAGTTGGCCACCTGCTCTTTGCTCTCACCAGTGATGTAATAGATGGACTTC
 TGTGTCTCCTTCATGCGAGAAACATACTCTGACAGAGATGTCATCTCATCTCCAGACTGGGAGGTA
 TGATAGCGCAGCAGCTCAGACAGGCGGCGGCGGTTAGTGGAGTCTTCGTGGATTCCAAGCTTGAG
 ATTTTATAGAGAATGCCTCATAGAATTTCTTGTAATTCCTTGTCTTCTGCCAGCTCAGAGAAGAGC
 TCAAGGCACTTCTTAACAATGTTTTTGCGAATGACTTTCAGATTFTGCTCTGCTGGAGCATTCTC
 GGGAGATGTTTCAGGGGCAGATCCTCAGAGTCAACCACACCAGGATAAAATTGAGATACTCTGGT
 ATCAACTCATCAGCTGTCCATGATGAACACACGGNGGACATANAGTTTGATGTTGGTCTTTTTTC
 TTCTTGGTCTCAAAAAGGGCAAAGGGNANCCGACCAAGGAATAAA

SEQ ID NO: 1567 ACAATGACCAAGATGCGACCAGGATCAGAGGTTCCCTGGGGAAGACCCACCC
 TACGAAGTTGGAATGAGACCATCAGATGTGATAAGAAACTCTTCTAGATGTCAACATAACCAACC
 TTATAAAGACTAAAATTTCATGAGTAGAACAGGAAAATCATCCTGACTCATGTGTGTGTTCTTTAT
 TTTTAATTTTCAAAGAGGCTCTTGATAGCAGTTTTTGTCTATTTTAACATTGTAGTCATTTGTACCT

SEQ ID NO: 1568 ACCGGATTCTCTCTTTAACCTCCCTTCGTGTTTCCCCCAATGTTTAAATGT
 TTGGATGGTTTGTGTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAACGG
 TGCTAAAAATGAAAATTCTAACCCAAGACATGACATTCTTAGCTGTAACCTAACTATTAAGGCCTT
 TTCCACACGCATTAAATAGTCCCATTTTCTCTTGCCATTTGTAGCTTTGCCCATGTCTTATTGGCAC
 ATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAACACACATTGCAGCTTCAACTTTTCTCTTAA
 GTGTTCTGTTTGAACCTAATACTTACCGAGTCAGACTTTGTGTTTCAATTTTCAAGGTCTTGGCT
 GCCTGTGGGCTTCCCCAAGTGGCTGNAGGTGGGCAAAAGGGAAATNACAGACACCACNATGTTG
 TCAAGGATGTTTGTGGGACTANGANGGCTCANNTGGGTGGGAGAAATCCCTGCANAAACCC
 ACCAACCNAGAACCGTNGGTTTNCCT

SEQ ID NO: 1569 ACAATCATATTCTCAGGTTTCATGACAGAACTAAAACTCTAGGAACTCAT
 ATAGTATCTCCAAAACCTTGGTATCAGTTTCAATTCTGCCTTCCAAATCTTTGTCTTCAATGCTTC
 CCCATCAGGTTTCATGCCTACTGAAGTCACAGAATTCCACATTTTGGAAATGGTTTGTCTGGAAGTGTG
 AGCCTCGCTGATTTCTAAACAGGCCTGTGAAAGAAGTATCCTCTCATGTCTGTACATCCGTAGT
 TTCAACTTCCAAACACTCCACCTTCTTTGGTTTAAATGTCTCTGCAAAGGTGCATTAGTTATAACC
 CCAGCATTGTGGGCTCCCTGCTGTTGTCTTGGGATAATACTTCTTTGGATTCAAGGTTCCTCTCT
 TAGAACAAACTCTATTTGTTTTTGAAGGCATGTGTCCATTCTTAATTTTGTGTAAGATTTCTTTTC
 TTCTCTACAATTATGCTCCTTTCTATCANGGATTGATATTTAGTCTTCGAGCCCTCCGGTTTGTCTTT
 TAAAAGACTTTCTTTTTTGGGANAAGA

SEQ ID NO: 1570 ACCGTTGTGTGTTTTCTGCAATGTGGAGTTGACTTAGCTTGGCATTTTAGATT
 GTTAAACTATTTTTTCCATAAATACTTTGAAACATATTTATATATTTCAATTTAAGGAATCTTTTT
 GCCATGTGTATGCAAATATTATTTCTTCATACATTATTTCTTTTCAGGGGAAAATTTTGGGATG
 GGGACTCAGGAGGACCTGTGAAGCATGTAGTTATCTANATCTGGGTAATTTTCATGTTTATTAAC
 TCGAACTTTGGCTAGTTAAACTCATATTGAAACTTCATCTAGTCTCTTAATTTTTTAACACTAAATT
 CAAGTCATTTGTTTTAAGTCTCTAAAAAAGAAGATTGCAGTCATCCATTTCATATGCATGGGGTCTG
 ATCGCAAATNCACTAAATGTGGAGTGTATGAACCAAAATGGAAACCTGCTGTATGGAACTACCN
 NTCATTATGGNTCATTGGGNTTTTGTACCTTGCCCGGGCGGNNCGCTCTGAAAGGGCCA

SEQ ID NO: 1571 ACCTACATCAGATCTAACCTTGATCCCAGCAATGTGGATTCCCTCTTCTACGC
 TGCCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTCAAATGAGACCAAAGATCTGCT
 TCTGGCAGCTGTGAGTGAAGTCACTCTGTTACCCANATCTACCATGCAGTTGCAGCTCTAAGTGG
 CTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCTTACTGCTCGTCTCAACAAGGAGGA
 GACTGTGCTGGCAACAGTCCAGGCTCTTCAGACAGCATCCACCTGTCCANCAAGGCTGACCTGA
 GGAGCATCGNGGAGGAGAATGAGGACCTTGTGTCTCGCCTTGGATGAACTCCGGGGCGTGTATCT
 TCCAGTTTGAAGAAAGACTGGAACAACAGCGTTTATTTGTGGGGTGCCACCTACAAGCTCATGG
 ATCATGTGGGGGACTGAGCCATTTTCAATTAAGGAGGNANCANGNCATCCAGCTGATGAACCGCGA
 NNTTNANNCAATAAAAAACCTTGANTTCCTTC

SEQ ID NO: 1572 ACACTTTTGTACAGTTACATATATGAATAGTTAGCAGAGGAGAACTCCTCC
 GTTGTTCCTACACCAAGGGGAAAAAATGTAAGGACTGTATAGCTCATGAATAATATTAACATTTTTC
 TATCACAAAATATTGATAAAATTTGGAATTGTATCAATTCATGTTATGGAGCTTAACATTTTAGCCG
 AAATATTAAGATAATATAAAATAAGGCTTTAGCTTCATATCAAGACCTATTTGAACACTTCTAGAA
 AAGAACATTAAAGTTTTTTCTCATTATGTTTGTATTTAGTGTAGTGCCTCAACTGTTCTTAATG
 GTGTCTTAAGTATAATGCATAATTATTAGAAATATAATTATAAAGGCATTACAGAATTTTATGTGGAT
 ACTTGCAAAGATATTTCAAGTCCAAAACCTTCAAATTACACACCCAAATATGTTTGTGCTTAATC
 TATACTTGGACAAAGGCAACATTTTAATTTTGTCTAAGTCTTAACCTTTAGCCCANATGGGGTGGAA
 ATGGTAAAATTTTCATCCCTCATCTTTGCATTGGAAAAAATACCTT

SEQ ID NO: 1573 CGCCCTTAGCGTGGTCGGGCCGAGGTACTGGCAACAGCTGATGCGTATAAAA
 CCTTAAAGTCTGGATCAGTTATGTATATCTGGATCTTAGAATATCCATGGCACTTCTGATAGCAA
 CAAATGGCATCTGGCACTGGAGGGAACCTGCATTCTTCAACAAATTTCTCTAACAGCATCTTTATT
 TTTTGTGGCTGAGACTCTTCAATAATCACATTACTCGTGGGCCAAGTTAACACTCCAGGAAGACGA
 TAAATCAAGGTTCTTGCTTTCTCAAAGTGATTGAGAGCTTCTAGAAATCTGTTTTTTTTTCAAATATA
 CTTTTCCAATTCACAGTAGGCCAAGCAATCAAGGCCCTCACTGGGGTAGTGTTCATAATCCTCT
 TAAACTGGTTTTTCGGCTTCAGATAATTCCTCANGCTGTCCTATTCCAAGGAGAGAAATGGGCAAGT
 CCATANACGACCAAAACATAAGTTNATCATTGGCCAGGTTNAATTGCTTATTTTTTTGAGGATCTA
 AACCGNTCANNACCTCTNTANAGGCCTNNTGCAANAGCTGNNGNAAACGCTGNTNCAATAN

SEQ ID NO: 1574 ACCCAGTAAAAACCAGAATGACCCATTGCCAGGACGCATCAAAGTTGACTTT
 GTGATCCCTAAAGAACTTCCCTTTGGAGACAAAGATACGAAATCCAAGGTGACCCTGCTGGAAGG
 TGACCATGTTAGGTTAATATTTCACAGACCGACGTGACAAATTAGAGCGAGCAACCAATATAG
 AAGTTCTGTCAAATACATTTCAAGTTCATAATGAAGCCCGAGAAATGGGTGTGATTGCTGCCATGA
 GAGATGGTTTTGTTTTCATCAAAGTGTGTGGATCGTGATGTTTCGTATGTTCTTCCACTTCAGTGAAA
 TTCTGGATGGGAACCGCTCCATATTGCAGATGAAGTAGAGTTTACTGNGGTTCCCTGATATGCTCT
 CTNCTCAAAGAAAATCATGCTTTTAGGATTAAAAAACTTTCCCAAGGGGCNCCGGTTCAATTTCTTC
 CCTCAGATNANCCTTTTNTGGGCNCGGTTNAAAAAAGNCACTTTTTTTTCCAATNCTNAAAN
 CACTAGCCCCAAATNAAGGGCCAAANAGAANGGGAGGCTGGGGGATNGGC

SEQ ID NO: 1575 ACTTTATTTTTTTTTTTTTTTTTTTTTTTTGGCAGTTTTTACATTTATTTAAACAGAA
 AACGTGCACATGANCTGCCTACTCATTTTCTTCACTGCGCAGCCTGGCATTGGGGTTGGNGACTCT
 GATGGCCAGTTGGGCANCTNNTTCCACGATGGCTTTGCGGTTCTTGGAGGAAACATTGTGAGCGAT
 CTCGGCACANTAANATTTGTTGCACATCAGCANCCTTNCANCTCCTTGACGTTGTGGACCAGGAA
 CTTCGGGAAGCCNCTGGGCANCATGTGCTTTGTTTTTTTGTGCTTCATAACCAATGTTGGGCATC
 AAAATCTGGCCCTTGAATNTTNTACNAACCCTGTTGTCAATGCCTCTGGGTTTCCGCCAGTTACGC
 TTAATTTTGACATATCGGTCTGACTGGTGCCGGATGAACCTTCTGGTTCTCTTTTTTGACNATCTTG
 GGCTTCACAAGGGGTCTGAGGGGCGGCCATNATNCCNAGAAANGAAATNGNTTGCCACCTCCCG
 TAAGGCANCGCCNAAGAAAAAAACCCCNCGGTCTCNGGCGG

SEQ ID NO: 1576 ACATTCATAGGGTTTTTTTCTAGAGTGGGTCTTTCATGTATACGAACATACT
 GGGGACACGTGAATGCTTTTCCACATTCCTTACATTGATAAGCCTTCTCTCCCGTGTGAATCCTTTC
 ATGTCTACGATAGCATCTGGGACTATGAAATGCTTCCCACATTGCTGACATTCATAAGGCTTTTCT
 CCAGTGTGAGTTCTTTCTGTATTTCGAAGGGTAGCAGAATAACTAAAGGATTTACCACATTTGTTA
 CATTTCATATGGTTTCTCTCCAGTGTGAATTTCTTCATGGATAAGATATAAACTGAGACAATGGAAG
 GCTTTCCCAAAAATTTACATTTATAAGGTCCATCCCCACTGTGCATTACCAGTGTCTTTGAATGC
 TTGAATGGGAAATAAAAGTTTTTCCACATCTTTTACAAGCATAGGGTTTTCTCTCCAGTGTGATCCCT
 TTGTGGNGTTCTAAANGAGGGGTGATATCTGAAGGCTTTTTTAAGTTGGTTGACACTTACATGGCT
 TCGGTCCATATTCCTGATACTCATAANGCCTTGNGTCCAAT

SEQ ID NO: 1577 ACATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTTAA
 CTAACAGCCAATGGTATGTTTTGATTGACATCAAGTGGAGACGGGATGGGGAAAAAATACTGATT
 CTGTGAAAATAACCCCTTTCTCCATTAGTGGCATGCTCATTACAGCTCTTATCTTTATATTCAGTAA
 GTTATTTTGTCTCTCACTGTTTTAACAACAAAAAACAACAATAAAAAATCCTTGACATACCTTGTT
 CAATTGGAGAATTTAATGTTTTTCAATTTATGTTGTAACCAAGGACAATTTTATAACTTTTTTG
 GACTTCTTTTTTTTTTTTTTTTTTTTGGAGGCTCACTCCGTCACCCAAATGGGAGTGCGNGGCAT
 NATCTANGCNCATTGCAACCACCNCCTNCCANGTTCAAGNNATTTTTTTGCTCAGCCCCCAAG
 TAGCTGGGTATTANAAAGCATGCACCCCCCATGTCCAGNTATATTTGTATTTTAGNAAAANAANA
 NCNTTTNCCCATNTNNGGCCAN

SEQ ID NO: 1578 ACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACCTTTGCATCTCAAGAA
 AACATTGAAAAATTCTATGAATTGTTGTAGCCGGTGAATTGAGTCGTATTCTGTACATAATATTT

TGAAGAAAACCTTGGCTGTGCGAAACATTTTCTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTT
TCTTATGTATGGGTTTTTTTTTAATGTGATCCCTTCATTTGAATATTAATGGCTTTTTCCATTAAAGA
ATAAAATATTTTGGACAATGCCGATAAATGTATGAAGTTAGTATCCACATCATAAATTCAGAGTGA
TGTTTAGCAGTAAATCAATATTTTGAAGTGATACACAGATGTCTTTCCTCCCCACAACTTTTTTAA
ACAAAAACAAGACCTCTTTTCTTTAGATGGTGCCCTATGCCACCACAAACAGAGATTTTACATG
GAAACCGGGCTCAGTGAGAACTGATTTCTGCCCCAATATTTGTCTTTGGGCTGTCTCTAGTGACTA
ATTATTAAGGAATCTAACTGGTTATACAGTTNAAGGCTTCTT.

SEQ ID NO: 1579 ACATCTGTCTGTTACTTTTTGATAATTCTCAAAACATTTCAAGCATTTAAATT
ATTATATCTGTTATGGTAATCTATGATCAGAGATCTTTGATGTTACTATTGTAATTGTTTTGGGCTT
CATGAACTACACCTATATAAGATGGTAAACTTGATCAATAAATGTTGTATATGTTTTGAGTGCTTC
ACTGCTGACCACTCCCAGTCTCTCTGCCTCTTCTCAGGCCTTCTTATTTCTGAGACAGAACAAAT
TGAAAGTAGGCCAATTAATAACTCTACAATAACCTCTAANTGTTCAAGTGAAAGGAAGAGTCGCC
CATCTCTCTTTTAAATCCAAAGCTAGGAATGATTAAGCTTAGTGAGGAAGGCATGTTGAAAGCCA
AGATAGGCTCAAAGCTTTGGCCTCTTGTGCCACATGGTTAGCTAAGTCATGAATGCAAAGGAAAA
AGTCTTGAAGGAAATTTAAAAAGTGATACCTCCAAGCCAAGGCGTNGNGGCTCATGCCCTGTAAC
CCCTACTNTTTNGGAAGTNAAGGCGGGCANA

SEQ ID NO: 1580 TTTTCAGGTTCTTCCTAGCTCGGGGCTTTTAAATTTTGAAATCTAAACATTCTTT
CCCACCATCCTTTTTGACTGTTGACCTTGGTTTTCTCTTCTAAGTTTNTGTCCCTCTGCTTCCTTACT
TTTTTTCCTTTTTGAATTCTATCTTTATCTGTCTTTTGTTCACCTTTTAAATGCTATATATGGGCAGGG
GTGAGAGACATTACTGAGCACCTTGGTGAGCAAGCCTGGCTTTAAAGATTGGAGAAGAGCTTCTG
GCACAGAACCTGTCTTCCTCCAGTTCTCAACATGGTGTGCTCTTCAGTCATACCGGAATCTGA
ATCAAAAAAGTATTTTTTAAATATCCATGATTTCTCCCTGTATTGAGGCTAGCCCTGATCATGCTTTT
TGTGCCTGTCAACAGGTCTCCCAAGTGCACCTCATCCAGGTCAAGTGCTCAGATGTGTTTAANGAGA
CCCTATATTCAGGGAAGTTGCGTGAACACTGCAGTGGGGGAGAATTGAGAATAGTCAGGCCTATC
AATCTCACAGAATCACCCCTCTAACCTTTGAT

SEQ ID NO: 1581 ACGCGGGGAGTGGCTTGAGGTATCCGCAGGAGCGGCCGGGTGGCGGGAGGA
ACCGTTACGGGAACTGAAGTTTCGGATTAAGCCTGATCAAGATGACAACCTCCAAAAAGCACCGA
GACTTCGTGGCAGAGCCCATGGGGGAGAAAGCCANTGGGGAGCCTGGCTGGGATTGGTGAANTCCT
GGGCAANAAGCTGGAGGAAAGGGGTTTTGACAAGGCCTATNTTGTNCTTGGCCAGTTTCTGGTGC
TAAAGAAAGATGAAGACCTCTCCGGGAATGGCTGAAAGACACTTGTGGCNGCCTACGCCAAGCA
NTCCCGGGAAGTNTTTGATGCCTTCCANAGTGGTGCNACGCCTTCTNTGATNCTCTTTGGGAAG
CTCTNAATTCCCAANCCTCNTACAAAAGTTNNNACCGAATAAGGACTCCNTNCCCTGTCCNTCTN
CAAAANGAAAAGAATTGTNNTTGTCTCCCTNNCCNGGNCNGGNTTTTTAAAGGGCTAAAT
TACATCNTCAACTGGG

SEQ ID NO: 1582 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCATTGCTAIGTTTTATTTTGCTA
GTAGCTTATTAACATAACATGCAAATAATCAAAGAGAAACATACATGACTTANAGTGAAAAATA
ATTCTANAAAAGTTTCACTAGGTAAGTATGCAAATCTTATTCTAAAAATACTNTTTAAGNGCAT
GAANCTTCATGTATTTTGCAATATTCTTGGCCTCAATATNTACCACCTATTTTTTAACCAGACAAAT
TTGAATGTNTCAAGATAATTNGGNGCAAGAGAGTAACATCCATATGTATTTAATCCAAGCTTTGAG
GAACATTAAGATTAAAGGATTATAAACTTGGCTGATTTCCATGCANCCACGTAAGGTTTTGCA
CATCNTTTGACAGTNGAAATANAAAAACACTNAATTTNCAAATAAAGCATTGAGTTTGGATGGGC
TATTTTCGGGTATATGNTGNGNGTTCTTGNANGGAAANAAGGCCTGCCCTTTTINATCTTTTTTTTA
AAAAAAAAAAAAATGTTTACAAAAACAT

SEQ ID NO: 1583 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACAGTGGTCTTA
AGGTTGAAGTGTTGTTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGA
TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAACTTGCTGCTGATGAAGATGATGAC
GATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATTTTGATGATGAGGAAGCTGAANA
AAAAGCGCCAGTGAAGAAATCTATNCNAGATACTCCAGCCAANAATGCACAAAAGTCAAAATCA
GAATTGGAAAAGACTCAAAACCATCATCAACACCANNATCNATAGGACAATAATCCTTTNAAGAA
NACATGANAAAACCTTCTAAACACCAAAAANGACCTAATTTTNTGT

SEQ ID NO: 1584 ACGCGGGGGGGGTGGTGCCAGTTTGGAGCTCCTGGAAGGTAAAGTCCTTCT
GGGGTGGATGCTCTCAGGCAAATGAGAATTAATCATAGGGGAAACTACCGACAACCTTCTGGAGGA
GATGCTGACTAGTTACAGGCTAGCTAAAGTAGAGGGAGAAAGAAAGCCCTGCTGAACCANCTGCCA
CAGCTACTTNTTCGAACAGTGATGCTGGAAACCCAGTGACAATGCAGGAAAGCCATACTGAATCA
GAAAGTGGTCTTGCTGAATTAACAGCTCTAATTGAANATGCANGGACAAAGATGAGTGGTGAAA

AAATATGACTTTCCTTTTTGGTAATATTTTTGTGATCTTTGATGGTTCTTAACCTANGAAGTGTAAT
GTATGCATTTATATAANTGTTTTGTTATTTGAATCTTGGANAACCTAANTTTATTATATTTTCANAAT
AGCCTTTGTTTTTAAAAAAGGCCNTTTGCCATACACCTTTTTGNATANTGNAAAAATTGACCTA
TTNNATTGTTACCTTCCCNNGGCGGCCCGTTNTAAAAAGGC

SEQ ID NO: 1585 ACAAGACCAGCAAAGCCCAGCTTCTCGGCTGTGAGCTCTGAGAACCTGGGGA
CGATCCGCCCTCCTGTTGCGATGGCAATCAGCTCAATTTTCAGGTCCTCTACCCAGCGAACCCGAG
GCAAGTTGTTCTGAAGAAGTAAGTGATTGCTTCATCATCAAAGCCCCACTGACAAATTGCTAGGT
TAGCACCAGTCTCTTTAATTTGTTGAATCATCTCTTCAAATTTCTCCTTTTCGTATTTCTGAAGGGCT
TTATAATCTTCGACAGAGGTCACATCCAGCTTATGCTTTGTTTTGGTTTGGGTGGTTCAAATGGAC
ATGTGAGAATTGCAATCTTCGCATCTTCCACTTTTTTTGGCATCTGTGGGTGACTGAAATCCTTGT
CACAATCACCGCCCTTAATCAGTTTAGTGTNCTCCAGCCTGCCGCCACTTTGCCTTCTACTTTTGA
TAAAGCTCAAAGTCAACGTCNTCCGCTNCATATCTGCTACAGTNAGGACGGNATTNACAGCAA
TTCTCAACCATCTTGTGCGGTGNCAACTGTTGACCAACTTTGGAA

SEQ ID NO: 1586 ACCACCAAGAATTCTTCAAATAAGCCAGCTGTCAACCAAGTCACCTGCAG
TGAAGCCAGCTGCAGCCCCAAGCAACCTGTGGGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCT
GACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGG
CCACCACTAAGCCCAAGGCGACTGCCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAG
GGTAGTAGGGACAGCAGCTCTGATTCAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACAT
CTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCCTTCAAGCCAGCCT
CTGCAAAGAAAGGGAAGGCTGAGAGCAGCAACAGTTCTTCTCTGATGACTCCAGTGAGGAAGAA
GAAGAAAAAATCAAGGGCAAGGGCTCTTCAAGACCACAAGCCCCAANGCCAATGGCACCTTCTG
CACTGACTGCCCAGAATGGAAAAGCACTTANAACAGTGAGGGGAGGAAGAAAAAA

SEQ ID NO: 1587 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAANAAGGTCCAAATCAATAGGTCT
TTTATTGCATCATTTAAATATCACAAGTAGGTCTTAAAGTGCATCTGGCATCTTNTTCTGTAGCCA
GGTAACTCTTAAATCTTATTCATCAGCCTGCTGAACAGTTCCTTTTTCANANACATANATACCATCC
AAAAATTTCTTGATATCCTTGTTTTTAACTGTTGNGGCTTGCTGAATCAAAGCCGCTGAATTTGAA
ACAAGTCTCAATGTCAATTCCTTCAAGGATTAATTCATCTTTCTGGGCTTGANATAGTGAACAACA
ACACTGCTCTCATCCGAACCTGCGGATGTATTTTACCCCAAGAAATTTTCGGATTTCAACAANA
GACCCATTCTCCTGGATAACAACGTTGATGGGGAAGTGAGCATNCACAGACCTCATCTTGTNACG
GAAGCCCAGTGTAACACCCTTNATCATGTTCTGTCTTGCCGNGACCACGC

SEQ ID NO: 1588 ACTTTTTTTTTTTTTTTTTTTTTTTTAAATCTGAGGAATAAATGCAAGTTTTTAA
AAGTGGCAAGGACATGTAAACAGAAATTGCTTCTATATATTTAATACAAAATCCACATTTATTAT
TAGCACCATGATTTAACTTACAAATATATTCTGACTCCCTGGTTTTAANAGCAATAGCTTAAGTT
AAATACACAGTTCATCTNTTCCAAAGTCAAAAACAATAAAATAAAATAACACCGACAAGCAATAG
TAGCAATGGCAATTTGAAAACATATACTTTAAGTTAATGGGACTTCAATAGCTCAGTACTCCCTTG
GCATNTCATGGTGACGTGACTTAAAGGTTGGTGCAAAGGTAGGTGCACCCCTGGGGGTGATGAAA
AGTTTCTGAAGTCTTCATTGGTGAGTTTTGATTGGTGGAAGGAGTGAGGATCATCCCCATCGTGG
CCATCGGGGGGCCAAAGGGTTGGGAGAACGGGNTACTATTCTCGCTCCGGCATTTTGTTATCGNTC
TTTTNCCTGNACCAACCAA

SEQ ID NO: 1589 ACAGTTTCCCAGCCCACAGTCATTGCTTCATTCCTTGTCTGATCAGATGGTAG
TTAGAAAAGAAGCTCTCCTACATCCATCTTCTATACCAGGAAAGAGGAAGAGTGGCAAAAGCAGA
GTCTTGTGCCTTCAAAGATTCAATCTGTTCTGTTGTGGGCTAAGGCATCCTGTTCCCAGTATACGC
ATTTTGAGATCAGATAGAGTTGCTCTTCCAGGAGTCAGCACCCACGCTCATGTCCGCTTTTCAGTT
AAATCTCCTTGTTTTAGTAACTCTTGTGATTTACTGCAGTTAAGACAGAACTTCATATGATTGC
CTCCCTGACTGCATGGTCACCAGGTGATGTGTACATCAGGCACTGAAGACAGGGAACGTGGGGA
TCCTTCAGCAAGCACCTCGTCATCAACTCCCAGGATAGAATTGGTATTTGGTAGGTTCAAGGACTC
TCCACCAAGGCTGGGCTTGGGAATTCATAGACACCAGGTTTTTACTGGGTCCNCGGGATTTTAAGG
AGAAGTAAGAGTAATGTAGTATTTTATACAAATATTTATAAAAAATAT

SEQ ID NO: 1590 ACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCCTCTGG
CTTGCTAGGAAGCTCATTGGAGACCCTAACTTGAATTTGTTGCCATGCCTGCTCTCGCCCCACCA
GAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAAC
TGCTCTCCCGATGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGT
TTTATAGGCAGCTGTCCTGTGATGTCAGCGGTGCAGCNGTGTGTGCCACCTCATTATTATCTAGCT
AAGCGGAACATGTGCTTCATCTGTGGGATGCTGAAGGAGATGAGTGGGCTTCGGAGTGAATGTGG
CAGTTTAAAAAATAACTTCATTGTTGGACCTGCATATTTAGCTGTTTTGGAACGCAATTGATTNCT
TGAGTTTCATATATAANACTGGGTGCNGTCACATNACAAATATTTCAAGTGGTGAAAATCTTGTTT

GTTACTGGNCATTTCCCATTTTCCTTTTTTCGTTTAGA

SEQ ID NO: 1591 ACAGTTCACCTCTGCAAAAAATACTCCTTCTCAGCATTACACATTCCATTTCAGCA
TAGTCCTGAAAGGTCTGGGTCTGGTTCTGTTGGAAATGGATCTAGTCGATACAGTCCTTCTCAGAA
TAGTCCAATTTCATCACATCCCTTCACGAAGAAGTCTGCAAAGACAATCGCACCACAGAATGCTC
CAAGAGATGAGTCTAGGGGCCGTTCTCGTTTTATCCTGATGGTGGAGATCAGGAACTGCAAAG
ACTGGGAAGTTCTTAAAAAGGTTACAGATGAAGAGTCTAGAGTATTCCTGCTTGATAGGGGTAA
TACCAGGGATAAAGAGGCTTCAAAAAGAGAAAGGATCAGAGAAAGGGAGGGCAGAGGGGAGAATG
GGAAGATCAGGAAGCTTTAGATTACTTCAGTGATAAAGAGTCTGGAAAAACAAAAAGTTTAATGA
TTCANAAGGGGATGACACCAGAGGAGACAGANGATTATAGACAGTTCAGGAAGTCAGTCCTCGC
AGATCAGGGTAAAAAGTTTTTGCTCCTGNTCTCACCGGAAT

SEQ ID NO: 1592 ACGCTTGATCAGATTTCTGATGCAGATAATATCCCAGGACTTTTGGTTCTCAA
AAGCTTGGCTATCGGAACAAAGGTTTCATTTGATGAAGCTGCAAAGATTATGGAAGACCTTCTCTC
TTCTTACCCTGACCTAGCTGAAGTTCATGCCCTTGAGGCTTTGATTCAATTCACCAAAAAGGACTAT
CTACAAGCAGAAAAATGTTTTTCAGAGAGCTCTTGAGAAAGATACCGAAGTTGCAGAATATCATT
CCAACTTGGATTAACATACTGGTTCATGGGTGAAGAGACAAGAAAAGATNAAACAAAGGCTCTTA
CCCCTTTCTGAAGGCTGCAAGACTGGATACATATATGGGCAAAGTTTTCTGCTATTTAGGTCATT
ATTATAGAGACGTAGTGGGAGATAAAAACAGAGCTCGNGGATGTTATAGGAAAGCCCTTTAATTA
NATGACACTGATGCTGAATCTGGAGCTGNAGCCNNTTGANCCCTAGTGNNGGAGCTTGAAAAAN
TGGGAAATGNTTTNAGCTTTCCTTAACAACANTTACTCNAAAAAGGC

SEQ ID NO: 1593 ACGCGGGGTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGG
TTCGTGCGCCTTCTACCTCGCTGTTTCGGTTTTCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGC
TGGGAGCGGACGAGGCGCGAAGCTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATG
GATATCAGACCAAATCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATT
GAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGGTGGACATTGTGGCTTTAAAGAC
CATGAANATGAGGGGGCAGGCCTTTGTCATATTTAAGGAACTGGGCTCATCCACAAATGCCTTGA
AGACAGCTACAAGGATTTTCCATTTTATGGTAAAACCAATGCGAATACNNTATGCAAAAACAGAT
TCNGGATATANATATTCAAAAANTGCGGTGGAACTTTGTCTTGACNAAAAGAAAAGNAANNATNN
AANNGAAAAATAGGCCAAAACTNTGGAANAANACTGNAACAACCNACAAAA

SEQ ID NO: 1594 ACCATCTGTGGTGGCTCTCTGCAAGTTTTTAAACTGCCTCTGCTGAGCTCTCA
TCATTTTGGTGGTTTCTGTGTTAGATCTCGTTAGTCTGCATTCCACAGCTTCTCAGTTGCCATTTGAT
TTCCCAACTGTCCGGAAGTGTTTCCAGAATACTGATCACTTTTTTTTTTGGAGGCATCTGACAAAGT
CACAAAGTCTCAGACTAGAAATAATTACCCAGTATGATCATGGCATCCAAGACCAGAGTCTCAGA
ACTCATTAAGAAACAGTTTACTTGGAATGGAGAATACCCATCTGTAATACAGGTCTCTGATTTCA
TTCATCTCAAATTATTTTGAATTTCTCCCAAATGGCTGCTGGATTTAGGTGGTAATAGGGGCTGTG
GGCCATAAATCTGAAGCCTTGANAACCTTGGGTCTGGAGACCATGAAGAGGGAAGGAAAAANAG
GGGCAAGTTCCTGAACCTAACCAATGACCTGATGGGATTGCTNGACCAAGACACAAGAAGNGAA
NGCTGGTGTCTGTTGCCCTTCCCCANNAGACTGGAGTNTTTTGGGG

SEQ ID NO: 1595 ACTTGCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
GGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCATCCCTGC
AATGATTAAACACCAAGGGAAGGCTGCCTTCCAGTCTGTGACCAGCGCCGGAGTTTTGGGTCCA
CGGATAAAACGTGTCTCTTTTGTCTCTACCAGAAAATGAAAGGAATTGAAATTAAGAGAAGGGAG
AGATTGAAGTGTAGTGCCAAGATTGAAAGGAGAAAGTGGTTGAGGGATAGTGAGGGGAAGTTGGA
GAAGAGAGTAAAAAGAGGCTGCTTACCAGATTTGAAATTGGTGAGATGTTTCTTGGGCTCGTCGG
TCTGAGGACCTGAGGTCCGTAAGTGGATCTTTCTCAGGGAGCAAAGAGCANGGAGGACGGAGGAT
TTGATCTCCCAAGGGGAGGTCCCCCGATCCGAGTCATGGCACCAAATTTATTGTGCCGTCCATGTG
AAAANAACCACAAACAGGCTTTTGTGTGAGCAANATGGCTGTTTATTTTACC

SEQ ID NO: 1596 ACGCGGGGAAACCGGACCCGCAACCACCATGAACAGCAAAGGTCAATATCC
AACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACCCTCAGACCTTGCATCTTCC
TCAGGCTCCACCTATACCGATGCTCCACCTGCCTACTCAGAGCTCTATCGTCCGAGCTTTGTGCA
CCCAGGGGCTGCCACAGTCCCCACCATGTGAGCCGATTTCTGGAGCCTCTCTGATCTTCCCCT
GGCCAGTCTGTGGCTGTTGGGCCTTTAGGTTCCACAATCCCCATGGCTTATTATCCAGTCGGTCCC
ATCTATCCACCTGGCTCCACAGTGTGTTGGAAGGAGGGTATGATGCAGGTGCCAGATTTGGAGC
TGGGGCTACTGCTGGCAACATTCTCCTCCACCTCCTGGATGCCCTCCCAATGCTGCTCAGCTTGC
AGTCATGCAGGGAGCCAACGTCTCGTAACCTCANCGGAAGGGGAACCTTCTCATGGGTGGTTTCAN
ATGNGGGCTACACCATCTGGTGAGGAACCAAGGCC

SEQ ID NO: 1597 TGTACATGTTGTGGGTGCCGCTCCGGGAGTCATAGCGCAGCCAGATCCCGAA .
 GTTCTTCACCCGCAGGGGGGACTTCTCAAACACCTGCCACAGTAGACAATCTCCCCTGAAGACTT
 CTTTCATCTTCTTTAACTGAGATACAAAGTACCTTGTTCACTGTGGCATAATAGAACCGTTGATGAA
 CCTCTTAACTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATATCTTTTCAG
 GCTGCTGAGAACTAGGTGAACTGAGAACTTAGTATAATGATTGAAGAATGTGGAGGCTTANA
 CAAAATTGAAGCTCTACAAAACCATGAAAATGAGTCTTGTGTATAANGCTTCGTTAAGCTTAATTG
 AGAAGTATTTCTCTGTAGAGGAAGAGGAAGATCAAAACCGTTGT

SEQ ID NO: 1598 ACACCTGGCTTGAGGCTGTCTATCTTCCTCATCGGTATCATCGTAGCCAATGTG
 CCGGAAGGTTTGCTGGCCACTGTACGGTCTGTCTGACACTTACTGCCAAACGCATGGCAAGGAA
 AAAGTGTAGTGAAGAACTTAGAAGCTGTGGAGACCTTGGGGTCCACGTCCACCATCTGCTCTGA
 TAAAGTGGAACTCTGACTCAGAACCGGATGACAGTGGCCACATGTGGTTTGACAATCAAATCC
 ATGAAGCTGATACGACAGAGAATCAGAGTGGTGTCTCTTTTGACAAGACTTCAGCTACCTGGCTTG
 CTCTGTCCAGAATTGCAGGTCTTTGTAACAGGGCAGTGTTCAGGCTAACCCAGGAAAACCTACCTA
 TTCTTAAGCGGGCAGTTGCAGGAGATGCCTCTGAGTCAGCACTCTTAAAGTGCATAGAGCTGTGCT
 GTGGTTCCGTGAAGGAGATGANAGAAAGATACCCCAAAATCGTCGAGATACCTTCAACTCCACC
 AACAAAGTACC

SEQ ID NO: 1599 ACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAG
 AATGCTTCAGAGGACAATCATTCTGAGAATACTTTGTATTCAAATGATAATGGAAGTAATTTACAG
 CGTGAAGCAACTGTCTCAGTGAGCAAAAAGTCAAAGAAACCAAAATATTGGCGAAGAAACCAA
 TACATAATTCAAAGGAAAAAATAGCAAAGATGGAACATGGACCTAAAGCAGTGACTATTGCAAAT
 TCTCCATCAAAGCCTTCAGAAAAGGATTCTGTAGTTTCCCTTGAGTCCAGAAAGACACCTGTGAC
 CAAAACCTGAAAACCTCTAAGTCAAACCAAAAAAACAAGGATCTGATAGCTCACTCTCTGGTAA
 CAGTGATGGCGGANAAGAATTTTGTGAAGAGGAGAAGGAATATTTTGATGATAGCACAGANA
 AGGTTTTACNAGCAGTCTTTCATGTCTTGAAGATAGTGATAGCGGTGACNACTTCTTCATTGGGAA
 AGTCAGACGGACACNAAAGAAAGAAAGTAGGTGTCATTCTT

SEQ ID NO: 1600 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCAGAGGCNCAATCATTTTANATTA
 AAAAAATTGAACAAAGANACCCTNTTGCANAGGTGANATGAGGCCCTGCCATGCAAAGGAGTC
 CCAGCAGAGGAGGAANAATTCATCCTGGAGTTCAAGTTCTGTGCANANACAGGACCTGGGGAC
 ANANAACGGTCCCTCCACCAATTCAGCTGGTCTGTCTCATCANCTTTGGGCTGANCTGGGGTG
 ATGANAGGNGGAGTCTCCCTGGATGGNGACCGGACTTNTGGCCAACTTGCAATTTGCATTTTGCA
 CTCATGACNATGATGATGCCCATGGNGCACANAACCCAGCGCAAATGAGCCCGCCAACCTGGAG
 GCTGTGCCAGTCATAGTAGAAAGGACTGTTTTATCTTNTAGGNCATTGGCCGTCCANGACAGGAA
 AGCCTGCCAANAACACAAGCAGGCCAGGGTCACTTNTGCATGTCAAACCNCTGGCCTTGTGT
 GGTNTNCCAAGCNTGAGCAAAAGTTCCNGGAGAAAATCC

SEQ ID NO: 1601 ACAATTTAAAAATAAGTCTATGTTTTTCACATTGATTTTAAAAAATATAGCATG
 TTTGAATTACAAATGATTAAGCAAACCTCTATTACTTCATAGCTGACCATCTTCCAGAAAATTCCCA
 CTTAATTGAATACTTAGAAAAAATGGCCAGTGGCCGATTGAAAGGTATATTAATAAATTAAGGGCA
 GTTTTAATTCTGAAGACAAATATCTTCATGGAAATCTATTTGTAAGCTTCTGAGATTGCTGCTGAA
 AGTCTACAGTCTGTGAATATACCAATTCCCTTTACAACTGATGCAGATCATTATGAAATACTGGA
 AGGCATACCCTACAATTTAGGAATTGGTGTGGCTGCCACTGCTATGCTCTCAATTGCACACTCATC
 AGTTCTCTGCGGATCCNGGAAGTNGCCTTCTACCCCATCCGGNGCCCCANCTGTTTTTTNTCA
 ATCCNAGTANTNCATCCCNTAGGGCTGANTCAGTGCCATNGCCCATGCNGAACAGCATTNNTT
 TTNTNANCTNAAAGGGGNTGAAAGGGTNNCTTNANACCNTGTNGTGGGT

SEQ ID NO: 1602 ACAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAAACTCCTGGCCTCAA
 GCAATCCTTCTGCCTTGCCCCCAAGTGCTGGGATTGTGGGCATGAGCTGCTGTGCCAGCCTC
 CATGTTTTAATATCAACTCTCACTCCTGAATTCAGTTGCTTTGCCCAAGATAGGAGTTCTCTGATGC
 AGAAATTATTGGGCTCTTTTAGGGTAAGAAGTTTGTGTCTTTGTCTGGCCACATCTTGACTAGGTAT
 TGTCTACTCTGAAGACCTTTAATGGCTTCCCTCTTTCATCTCCTGAGTATGTAACCTGCAATGGGCA
 GCTATCCAGTGACTTGTTCTGAGTAAGTGTGTTTCAATTAATGTTTATTTAGCTCTGAAGCAAGAGTG
 ATATACTCCAGGACTTAAAATAGTGCTTNNAGTGCTGCAGCCAAAGACAGANCGGAACATGAAA
 AGTGGGCTTGAGATGGCAGGAAAAGCTTGTCTATTGACCCTGGCAAATTTAACAACTGATGCTT
 GAGGATGATTGAGGGTGGGGTCTACCC

SEQ ID NO: 1603 ACAAACCTTGCTCAGAAGCTGTATCAGCATGAAATCAACTTATTCAAAAG
 TAAGACGAATAGTCAAAAGGGAGCCTCTTCTACCTGGATGAAGGCAATTGTGTATCGGGGACAC
 TAGGTGACAGGATGGCAGCCATGATTCTTCTTATTTCAGGATGATGCCGTTACACACTTCAGTTTG
 TAGAACTCTTGTGAACCTTGTTAAAAAGAAGGGCAGCAAACAGCAGTGCCTTATGGCCTTGGAT

ACTTTCAAAGAGTTGCTTATCACAGACCTTTTGCCAGACAATCGGAAGCTGAGGATTTTCAGCCAG
CGTCCTTTTGACAACTGGAACAGTTGTCCAGTGGCAACAAGGACTCAAGAGATAGAAGACTGAT
ATTATGGTATTTTGAACACCAGCTGAAACACTTAGTGGCTGAATTTGTGCAGGTCTTAGAAACTTT
AAGTCATGATACATTAGTAACCACTAAAACCTGAGCCCTTACCGGTGGCTCATGAGCTGCTTTGTA
CAAAGCCTGANGGAAGAAAAGCTCTTCTTGGTGCAANTGGTATATAAACTGG

SEQ ID NO: 1604 ACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATATTTATTTTCTTAACGAC
CTATTACGAATATTATTTACTTAATATAATCACAGTCTAATTTCTCAGTTATTTATTACCATGCTTA
AACTTCCCAAGCTGATGAAAAAGTTTNTANAATAAGCCCCATTTACANAAANAGGAGCCTGTAGT
TAGGGAAGTTAAAAAACTTGCTCAAAGTCACACAGNGAATGGTGCAGCAAAGATTCAAACCTAGAC
ACGACTCACTCCGAGTGATTAGTTTTATCTGGATGAAGGAATTGNGCCAGTCAAACCAACTATTG
GGTAAGTAAACAGCCTGCGTGCTGGCAGGTGCCATCCCGCGTACCTGCCCGGGCGGCCGCTCNA
AGGGCG

SEQ ID NO: 1605 ACTGAGCAGGATTACCATGGCAACAACACATCATCAGTAGGGTAAAACTAAC
CTGTCTCACGACGGTCTAAACCCAGCTCACGTTCCCTATTAGTGGGTGAACAATCCAACGCTTGGT
GAATTCGTCTTACAATGATAGGAAGAGCCGACATCGAAGGATCAAAAAGCGACGTGCTATGAA
CGCTTGGCCGCCACAAGCCAGTTATCCCTGTGGTAACTTTCTGACACCTCCTGCTTAAACCCAA
AAGGTCANGAAGGATCGTGAGGCCCGCTTTCACGGTCTGTATTCTG

SEQ ID NO: 1606 ACGCGGGGCTTTTTTCGAGGTAGGAGTCGACTCCTGTGAGGTATGGTGCTGG
GTGCAAATGCAGTGTGGCTCTGGATAGCACCTTATGGACAGTTGTGTCCCAAGGAAGGATGAGA
ATAGCTACTGAAGTCTTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAA
AGCTGGAAGTTGAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAAC
GTTTTTATCCATGGATGACTTGCTTGGGTATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAAGT
TTTAAAGAAGCAAAGGACTCAGAATTCATGATTGAAGAAATGCAGGCAGACCTGTTATCCTAAAC
TAGGGTTTTTAAATGACCACAACAAGCAAGCATGCAGCTTACTGCTTGAAAGGGTCTTGCTCACC
AAGCTANAGTGCAAGTGCCCTTTNAAGCTTACTACACCTCAAACCTTCTGGGCTCAAAGTGATCCT
CACCTCCANTGGGTCTTTTGTAACCTGG

SEQ ID NO: 1607 ACGCGGGGACGGTTCGTTTTTCTTTAGTCAGGAAGGACGTTGGTGTGAGGT
TGGCATACGTATCAAGGACAGTAACTACCATGGCTCCCGAAGTTTTGCCAAAACCTCGGATGCGT
GGCCTTCTGGCCAGGCGTCTGCGAAATCATATGGCTGTAGCATTCTGTGCTATCCCTGGGGGTTGCA
GCTTTGTATAAGTTTTCTGTGGCTGATCAAAGAAAGAAGGCATACGCAGATTTCTACAGAACTAT
GATGTCATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTATCTTTCAGAGTGTAAGTAATCTTG
GAATATAAAGAATTTCTTCAGGTTGAATTACCTANAAGTTTGTCACTGACTTGTGTTCTGAACTA
TGACACATGAATATGTGGGCTAAGAAATAGTTCCTCTTGATAAATAAACAATTAACAAATACTTTG
GACAGTNAAAAA

SEQ ID NO: 1608 ACGCGGGGCTCTTCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
GAACCCCATGCGGGAACCTTCGCATCCGCAAACCTCTGTCTCAACATCTGTGTTGGGGAGAGTGAGG
ACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCACAGGGCAGACCCCTGTGTTTTCCAAA
GCTAGATACACTGTGATCCTTTGGCATCCGAGAAATGAAAAGATTGCTGTCCACTGCACAGTT
CGAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGTCTAAAGGTGCGGGAGTATGAGTTAAGAA
AAAACAACCTTCTCAGATACTGAAACCTTTGGTTTTGGGATCCAGGAACACATCGATCTGGGTATCA
AATATGACCCAAGCATTTGGTATCTACGGCCTGGACTTCTATGTGGTGCTGGGTAGGCCACGTTTT
CAACATCGCAGACAAAAAGCCAGGACAGGCCGATTGGNGCCNAACCCANAATNATCAAAAN
AAGGAGGCCCTTGCCGCTTGGTTTTCCAGCAAGAAAGTTTGATNGGGG

SEQ ID NO: 1609 ACTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTTATTGGTCTCTTCTAGCAA
AGTGGCTCCAGGCCCTTCACGCCTNTCANACACCACCCATGAGGGTTTAGGAAGGTGCCATCATTC
TGTGAAGGCCCAAAGCTTACCCAAGTCTTGGAGCCCAAGTTGAATCACCACCANAGGGTTGGGA
GAGGAAAAGGAAACAGGCAGAGGGGAAAGGCAAGGCTCTGCAGTGAAGGGGACTGATATCAAG
GGAATGCTGAGGTCCAGCAGTGTCTCCTGAAGGCATGCTGCATCCTAAGGCTCCTCAGGACTGGA
TGGAGTAGGAGATCTGTGTGTTGAGCAGTTCACATNTATATGGCAACTTTAAGGAGGCCCTTGATG
TCAGGCTCAATGTTGATGGTTGGGAAGGTGCGGCTGTAGCGTCNGAAGGGCTCTCCTCCGCCCTA
TGAAAGAACTTTCAAAAGTTCCAGCCACATCTGAGTGGCNCACANGGCTCCAAANTGATGAGCTTG
GGATCGGCATGANGGGAATGGGTG

SEQ ID NO: 1610 ACAACAGTGAAGTAGAACAAAAGGTAAATGAATTAACAGGAGGACTAGAGG
AGACTTTAAAAGAAAAGGATCAAAATGACCAAAAACCTAGAAAACTTATGGTTCAAATGAAAGTT
CTCTCTGAAGACAAAGAAGTATTGTCAGCTGAAGTGAAGTCTCTTTATGAGGAAAACAATAAACT

CAGTTCAGAAAAAACAGTTGAGTAGGGATTTGGAGGTTTTTTTTGTCTCAAAAAGAAGATGTTA
TCCTTAAAGAACATATTACTCAATTAGAAAAAGAACTTCAGTTAATGGTTGAAGAGCAAGATAAT
TTAAATAAACTGCTTGAAAAATGAGCAAGTTCAGAAAGTTATTTGTTAAAACTCAGTTGTATGGTTTT
CTTAAAGAAATGGGATCAGAAAGTTTCAGAAAGACAGTGAAGAAGAAAGATGTTGTTAATGTCCTAC
AGGCAGTCGGGGGAATCCTTGGAATAAATGAGGAAAAAATGCACCTGGCTTTTCAGCCGTG
ATNAAAAAGTATTAGAGTTAGGAAAAAAGAGATTAAGTGCCTTCNANA

SEQ ID NO: 1611 ACCTGGTAGAAATTGTGTCTTGGAATGACCCTTCGAGTTATTGACATGGCTC
TGATGAATAGAACATGAGCCCCAAAATAATCCAAAAGGAATTTTCTATCTTCATCCCCACAT
GTGGCAAGACAAGTTGGCCCTTTCTTACCCAGAGGTCTTTTGTGTGACTGCATCTTTCTCCTCCGT
CTCCATTGNGTGCTTTCCATTTTGTCTTTAGTGCCTATACTGTTAGGTGTTATCTTCACTGGCATTCA
CAAATTTAAGCCATTGCTGCTCATTAGCCTTGATTTTGTGTGCATATCATATATCCAGACCTGTAT
GTTGCTTTAAGCATTCTTATATCACACTGCTCCTCATCTACCATATGGTAAATGTAAAACCTCCACA
TTTGTCTGATCAGGGAAAAGCATGGGCACACATCTTCTCCTC

SEQ ID NO: 1612 ACAGAGGGGTCTGTTTCTAAGTCTGGAACCTCAACACGAGGCTGGGATGCTT
CACAACGTGCTCTCTCCCACTGTCCAGCCATCTTTGGTGGTCTTCCCACAGTGCTTCCCCATCCTC
TCACACTCCTGTGGAGGGACCATGGGACGGGCCAGGAGGAAACCTGGGATCACTCTGACAGGAA
ACGGACAAGCACAGCTGCCAGGAGCCAGTTGCTCTGGCCTCAGTCTCCAATTGTTAGTCTCAGGAT
CAACAGANAACCTGGAAAGCAGCAGAATCTTGAGGAGCAGGAAGAGAGCCCCAGAGGGAGTGTTG
TGCTGAGTGACGGTTAACATATGAAACAGAATTTTATGGAGATTCTTTGTTACAAGGAGAAATGCG
TCAGTCTCAACTCCCCAAAACGTGAAAGTTGCTGTTTAAAGAGACTATGTTTCTTTTTCAGCT

SEQ ID NO: 1613 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGAAANACTGCTTTATTGGNGGC
AGTTACTACAAGTCAATAAATATTGATCCCCAANAANAGCTCGGTTATTTATCAAATTACTGGTC
CATAAAGAGCTGAATGAAACTGAACCAAGCGATTGCTGGGATGACTGAAGNCACTCCTGCTTNTT
GGGAAATGAAGCCACAGCCNGCTCATNTNTGGCATATGCTGNTCCACCAACTGNAANAATCATGG
NGGCTNTATCAGGAGGACATCAGCTACCCCAACCTTTAATACAGGGGAATTCATCATCCTCCTGG
AACAGTTTTTGCTTCTCCGGAACCTTATTTTAAATGCCTGCGGGAAGCAGTGCTTATCGTNTCTG
CCAAINTGACGAAAACCANCAAAATTC

SEQ ID NO: 1614 ACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCTCATTACT
GTTTTCTGGACAGCCGCACACGGATTTCGGTATGGCACATTCCTTATTCCTTTTGGCCCAAGACAGC
NTTTGTTGAGCCTGGTGTCAATGCGCACATCTGGGANTCCANTCCNTCANGGGCAAATTTCCGA
ATTCTCTTNGAGGGGGCCGAGGTGCNCGCTTNTTNAAGCCANNTCCATGGGATGGCCCTTGTTGA
ATGTTGATGGGGTNTNTTCGGGTACCCTTNGNTGATGGCANAACGGGNCCTTTNTTTTNCAC
CTTNTTTGCGGGACCNTTCTGNANNGCCCAAGTGAAGAAGGACCCNGGT

SEQ ID NO: 1615 ACAGGATAATACTCAGATATTTTAAATAAACTACTTAATAATAAGAAA
TTAGCCATAACCACATTGTTCCATTGCTACAAGAACAATTTGGCAATGAAGACTATTTAAAGAAA
TGCTCAGCTCTACAGAGGGTGGTGGCAGGCAACACTTTTCCATTACAGAATAACCTCTATTCTTCC
ATGATACATATTCCTGTGGAATAAACTTTGCAGGGCCAGGGATGAAAAATAGAGCTTTGTCCTAA
TTAGCTAACTGTAGTTCACTTAACATCTTTGGGAAGGACCCAAAAAATCTGGCCATTATTTCTN
AAACATCTGCAAGCTGCAGAATTCCTTANCCTCAGCTATAGTTTCTGCTAGATATCTTAANCTGGG
ACAGTTCCCTGTGACTCCTCCTCAGNTATGGGGGTGGG

SEQ ID NO: 1616 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNANATTAAGGCTTGTTTTATT
TAATGGCTGATCTATGTAATCACAGAGGCCAGTATGTACANACAAAGGGGAGGTTTTATTCTTG
GTCNCTTCTCCTTGGATAAAGTCTTGATGANCTCCTCCTTNTTGGCCTGGAGGCNCTCTTNACGG
NGCTTGCGTGCTTCTTGGTCTTAAACCTGCGGGCCTCAGCCTGGTCANCCAGNAGCTTTTTGCGG
GCCTTGCTGCTTCACTTGNNGATGTGTTCCATGAAAAACCGCTTGTTTTTNACACATTCCCCTT
NACCTTCAGGGACCNTGCCCGGGCGGCCGNTCNA

SEQ ID NO: 1617 ACCTCGGGGACCTGCTGGAGACCTGCCATTTCAGGCCTTCTGGCAAGCCCT
GGATGAAAACATGGACCTCTTGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATACTCGGGGATCT
GTCGGACAGCAGCTAAAGGTGTGGATGAGCAAAACGGCTGGAGTGCCGACAGTCGGGGCAG
ATCTTCATCTGTAGCCAAGAAGAGAGCATTAACCCCAAGAACATTGTGGAGAAGATTGACTTTGA
CAGTGTGTCCAGCATCATGGCCTCCTCCAGTAACTTCAGGTGTTTAAATAAGATGTGTTGACCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANTCCTCGCCGCGACCCCTAAGGCG

SEQ ID NO: 1618 ACCAGCTGGCACAGGAGCAGGGGGCATGGCACCTCTGTTGTTTATGCCCATAGCACCTCCCATAGCCATCTGACCCATCCGAATCTCCTGCTCTCTCGCATCAGGGAAGGTTCCCTTG AATCCTTCCTGCTGTGCGCGCATCATTTCTTCTTGCTGCCGCCGCATCTCTTCTTCACGGCGCCTGC GCTCTTCCTCCTGCCTGAGCTCCAGTTGCTTTTCGTTTTTGACCTCTTGGTTGTGCAGCTCTTCCATC CTCCGAAGTTCCTTCTTGCGCGCTCATCAAATCTCTCATATAGCATGACCTGGTGCTCATGGCGTG CAGCTTCATCCATCTCCAGCTTCTCAGAGCTCTTGATGTTGCGGCCACTTGGCCTGCTGCTGT TCTCCATCTCAATGAGTGCCTTCAGCGCATGGCATATTATACTCAAGGAG

SEQ ID NO: 1619 ACITTTATTCTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTGTCTCTGTTGCCTG
GGCTGGAGTGCAGTGGCCCAAGCTACGCTCACTGCAAGCTCCACCTCCTGGGTTACACCAATTCTC
CTGCTTCAGTCTCCCGAGTAGCTGGAATTACAAGCACCCGCCACCACGCCCAACTAATATTTTGTA
TTTTTAGTANAGACGGGGGTTTACCGTGTTAGCCAGNATGGTCTCGATCTCCTGACTTCGNATC
CTCCCGCTCTCGGCTCCCAAGATGCTGGGATTACAGCGCNGAGCCATGCACCCAGCCTTTTTTTT
TTTTTGTAGANNAGTTTCTNTTCTGTTGCCAGGCTAGAGTGCAATGGCATGACTTGGCTACTGA
ACCTNCGNNTCTAGGTTCANGCGATTCTCCTGCCAGCCTTTGAGTAGNTGG

SEQ ID NO: 1620 ACITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTNGTTTTTTTTTTTTTTNATAFT
TNATTCAACTTTATTAAAAATTAAAACTACANAAACCAAACCGAATGCNCAAATAAAAAAGNGGG
GAAACAAACAGGGANCAANGGCAGCTGATAACTGNGGCNAGNGGATAATCCGNATGACTCANAT
CCCACCCCTGCNACTGAGGAGCCCCAAAACNCTGCGCTGGCACTGTCGNGCCCTNTTCCACCANAG
GGGCNCAAAAACCTGCNGGANACTGAAAACGATTACAAACNTNTTCAACCAGCTNTTTGGCCAAA
GGCAGNAAAAGCAGCGCTGAATACNCAACTCACNCCAANAGGCAGCAGCTCTCCTGACATCCATG
TAAGANGGNTAACACCTAAACCACACGCAGGCNTCTGAAGTCA

SEQ ID NO: 1621 ACACACTTTATTTACTTCGTTTTGGTTAAGTTGGCTTCTGTTTCTAGTTGAGGA
GTTTCCTAAAAGTTCATAACAGTGCCATTGTCTTTATATGAACATAGACTAGAGAAACCGTCCTCT
TTTTCCATCATAATTCTAATCTAACAATGGAAGATTTGCCCATTTACACTTTTGAGACTTTTGGTG
GATGTAAATAACCCCATTTCTTTGCTTGAACACAGTATTTTCCCAATAGCACTTTCATTGCCAGTGTC
TTTCTTTGGTGCCCTTTCTGTTCAGCATTTCTTAGCCTGTGGCAATAAAGAGAAACATTTGTGCTACAT
GACGACAAAGCTGCTAAATCTCTATTTTTTAAAACTCAATACATTATATTGCAATGAAGGAAAT
AAAAAAGTCTCTATTATAAATCTTTTAAATTTTCTTCAGTNGGTGTGTTTGGGATGTCTTATTG

SEQ ID NO: 1622 ACTTCTCCGTTGACAAAGAAATTCTAGGTGAAATTAAGAGTCATGATCTGAA
ACCTAATGGTGGCAATATTCTTGTAACAGAAGAAAATAAAGAGGAATACATCAGAATGGTAGCTG
AGTGAGAGTTGTCTCGAGGTGTTGAAGAACAGACACAAGCTTTCTTTGAAGGCTTTAATGAAATTC
TTCCCAGCAATATTTGCAATACTTTGATGCAAAGGAATTAGAGGTCCTTTTATGTGGAATGCAAG
AGATTGATTTGAATGACTGGCAAAGACATGCCATCTACCGTCATTATGCAAGGACCAGCAACAA
ATCATGTGGTTTTGGCAGTTTGTTAAAGAAATTGATAATTGAGAAGAAATGAGACTTCTGCAGTTT
GTACTGGACCTGCCGATTGCCAGTANGAGGATTTGCTGATCTCATGGGGAGCAATGGCCCANAT

SEQ ID NO: 1623 ACTTAAATATATATTTATTCATTTCTACATATATAGAACTTGTAGGTAAGTA
GAAAAAGTTCCCACTAGGAAGGTAATTAAGGTTGTTAATGTTCTTTTATCACTTAGTAGCCAGA
AGACATGCTTATTTCTGCTCTCCAGAAGCAATGTTAGCTACTAGTTTCTGAATTCAGGAAAACGTT
TATCTTTCAGGAAGGTTTACGTGAGATATTTATTCAGTCTTTTTCTCAAACCTTCTTCCTCTTTTCATT
ATAGGCATTATACTGAGAGTCTGTGTCAAAAATTCGATCCCAACCATGTAATGTTGAAGCATAGTT
TCCAATGAAGTTTCATGTGGTGGAATCAATGATGCCGANAACAGCATAGANAGGGATCAGATTT
AGGGGTGAGAGGAATATCTAACCCCTTTGGACATCAATAGTTCTAATAAACGANTG

SEQ ID NO: 1624 ACTGTTAAATGTGGATGGCACCCCTCCCAAGGATTGAAAACACACAGCTGGA
TCATGCATCTGGAATAATTTCTTTTTATCCAGGAAAGTGTTTCTCTGACTTCTTGATATGTGCAC
ATCACCTTACACGTGGTGCCCGAGAGCCCCGCCATCGCCATCCCCGCCCTGCATCTGCATCTGCAT
CTGCGCCTGCATCCTTGCAATCATCTCTTGATGCGGCGGAGCTCANCTTCTTTTTCCAGCAAGATC
TGGTCITTAATTCATGTCTCATCTCCACTTTTCTGCCGCTCTCTTGAGTCTCTCAAAACGGAAGT
TTTCATAAAGTCTGGTCTGGTCACTCTGGAGATCTGCATGTGGGTGATGAGCATGGTTCTCA
CTTCAGAAAGTCAATTGCTCTGGGTCTCCCTTCACAAACCCCCANGGGTA

SEQ ID NO: 1625 ACCATTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTATGCCACTTGA
AAACAATTTGAGAAGTTTTTTTGAAGTTTTTCTCACTAAAAATATGGGGCAATTGTTAGCCTTACAT
GTTGTGTAGACTTACTTTAAGTTTGACCCCTGAAATGTGTCAATATCAATTTCTGGATTCATAATAG
CAAGATTAGCAAAGGATAAAATGCCGAAGGTCACTTCATTCTGGACACAGTTGGATCAATACTGAT
TAAGTAGAAAAATCCAAGCTTTGCTTGAGAACTTTGTAACTGGAGAGTAAAAAGTATCGGTTTAT
TCTTTGCTGATGCCTTCTGCTTTGAAATAACAGTCACCATAACAGCTAAAGGAGAGGACTTINTTCC

TTCTAAGTAGGCANAAATGGATCATTATGTTGCCGTCTCAATCTCCCAGAGNTCGTCT

SEQ ID NO: 1626 ACCTACAGACACTTTTACAGAGTTAATACTAAAATTACAAATTGATGACACTT
TCGAGGCAAAGCAGGGTAACTGTTTCCTTCAGTGTTGCCATCACTGAATTGACTTTCACTGTTCCAT
CATACTGTTTGGCTGAACACTGACATTCCATAGTCTACAACTATAAAGATACCTACCTATGTGAGT
TTAAAAAGTGATCTGCACAAAAGAAATAAAAAAACTTTATATACAACCAATTGTTTTTTAAAAAT
ACAAAAATAACATCTGTCACTTTTGTCTGTCGACAATTTGACATATATACACATGCAGGAGAAAA
GTTCCAATTCAGTGATCTGGACAACCTGTAGCTTGTATATTTTTAATATGATGGACACACTGCCGTG
AATTTTCACACTGACAGAGATGTGTTTCAAAATATTCATATACTAAATCTACATCTCTGATGA

SEQ ID NO: 1627 ACGCGGGGGCGTCTTGTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTG
TGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAATGCTAAAATTGGGCACCCTGCCCCAACTT
CAAAGCCACAGCTGTTATGCCANATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGAA
AATATGTTGTGTTCTTCTTNACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAGATCATTGTGCTT
CAGTTGATAGGGCANANGAATTTAAAAAACTCAACTGNCAAGTGATTGGNGCTTCTGTGGATNCT
ACTTCTAANATCNAGCATGGGTCAATACACCTAAAAAACNTNGAGGACTGGGACCCATGAACATT
CNTTTGNTATCATACCNAANCGCACCATNCTCATGATTATNGGGGCTTAAAGCTAGATAANGCA

SEQ ID NO: 1628 ACGCGGGGAGTGACGGTGGCGTTTCCTTGAGGAAGAGTGAGGGTTCCAACCTT
TTCTGCTTATCTGGGAGGTGTTGGGCGCGGACAGTCGAGATGTCAGAGAAAAAGCAGCCGGTAGA
CTTAGGTCTGTTAGAGGAAGACGACGAGTTTGAAGAGTTCCTGCCGAAGACTGGGCTGGCTTAG
ATGAAGATGAAGATGCACATGTCTGGGAGGATAATTGGGATGATGACAAATGTAGAGGATGACTTC
TNTAATCAGTTCGAGCTGAACTAGAGAAACATGGTTATAAGATGGAGACTTCATANCATCCAGAA
GAAGTGTTGAAGTAACCTAAACTTGACCTGCTTAATACATTCTAGGGCAGAGAACCCANGATGGG
ACACTAAAAAAATGTGTTTATTTCATTATCTGCTNGGATTTATTTGTGTTTTNTAACACAAAAATA

SEQ ID NO: 1629 ACGCGGGGTGGACTGTTGCAGCACCCCTCCCTTGGTCTCCCAGTCTGAAGTCTCT
CCTCTTGCCAATCCACCCTTCATCTTCCTGCCAGGTAAATTCCTTAAGAGCAGTTTTGATGAACAG
TGTGCCAAAGACTTTTCATTGGCTTCCGTTTGCTTAAATTATCAAGAACAGATTCCTTAGTCTAGTGT
TCAAGGTCTCCATCCCGTCTTTTCAGGTTTATTTCTCACAGCTGCCCTTCACACACCTGAGACTACT
GCTGTGCACCTCGCCACCCGAAGGAAGTGGCACTAGGAGCGTTTACATGCTATTTCCTGTCTCCAC
TTTAAAAAGCTCAGAATAATCTTCTCACCGGGCGCAGTGGCTCACGCCTGTAATCCACAGCACTTCG
GGAAGCCAAACAGGAGAATAGCTTAGCCTGGAGTTCGAGACAGCTGGACAACACACAAG

SEQ ID NO: 1630 ACTCCATCCCACAAAAGAATTCTTGTTCTGGTCTTTTCAGCCAGGTAAATAAGG
GCTCAAAGTAGTTGAGCAGTGGCCTTACATTTCATGTTCTTTGCTCCTACAACATTTTCCAATGCTAG
GGTCCAGGGTCTGATTTTCCAAGCCTCAGCATATTGAACAGTTTCTGTCCAGCTTCTGTAGAGTTT
GAGATGTCACATTTGTGCAGAGGGCCTTCATGTTTAGCTGCTTGACAAAGTGCTTCTTGAAACTGG
AATTGGTAAAGGGCCTTGTGTAATATCGAATGAATGAGTAATCATTAGAAACATGGAACAGAGAT
GCGGGGTACAGTATGTTTCATCATGGGGCACAGGTTCCCCACCCCACTATCTCTCGCTTCATCT
CCACCACCTTTTCATCCACTGGTCTTTGGGAATTCCCCTTAAAGACCATCCACCTCACTTCTN

SEQ ID NO: 1631 ACGTGGGCTATCAGTAGATCTACCATTCTGGGGTCTGGAGGATGGTTGCCCTC
TTCTCACAGCTCCAGCGGGGATTCTGTGCGGGGCCTCCTTCCCCACATTTTCTTCTCACTGCCCT
AGCAGAAGTTCTCTATAAGTGCCTTGCTCTACAGCAAACTTCTGCCTGGGCATCCAAGCATTTC
ATACATTTTCTGAAATTTAGGCAAAGGTTTCCAAACCCCAATTCTTGACTTCTGTGCACTTGCAAG
CTCAATGCCATGTGGAAGCTGCAAGGCTTGTGGCTTGCAACCCTCTCAAGCCATGGCCTGAACTCTA
CATTGNTCCTTTAAGCCACAGCCAGAGCANCTGGGATACANGGCACCANGTCCCTAGCTGCAACT
CACGGGGACCCNGGGCCTGNTCCACAGAGCCATTTTTTCTAGCTTCTGGGCCTGTGATGGGGANG
GG

SEQ ID NO: 1632 TACGCGGGGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGT
TGTCAACTTTGACATTCCCTACCCATTCCAAGGATTACATCCATCGAGTAGGTGCAACAGCTAGAGC
TGGGCGCTCCGGAAAGGCTATTACTTTGTGCACACAGTATGATGTGGAACCTCTCCAGCGCATAGA
ACACTTAATTGGGAAGAACTACCAGGTTTCCAACACAGGATGATGAGGTTATGATGCTGACAG
AACGCGTCGCTGAACCCAAAGGTTTGGCCGAATGGAGTTAAGGGAGCATGGAGAAAAGAAGAAA
CGCTCGGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTNCAGGAACAAGGT
GGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTAATCACTTTTATGAAGCTCGATTCTGCTGTC
TGTA AAAA

SEQ ID NO: 1633 ACGCGGGGGGTTCCGGCGTGGCCATTTTCGTTGGTGGTGTTCAGTTGTGGCGG
TTGCTGGTCAGTAACAGCCAANATGCTGCGGAATCTGCTGGCTCTTCGTCANATTGGGCAGAGGA

CGATANGCACTGNTTCCCGCAGGCATTTTAAAAATAAAGTTCCGGANAAGCAAANACTGTCCAGG
 AGGATGATGAAATCCCTGTATCTAANAGGGTGGGGTAGCTGNTGCCCTNCTGANANATCCACCA
 TGATTCTTACAGTTGGNGGACAGTNTATGCCATNTTGANCTGGCTNCGGNTTATTTCCCAANAAA
 A

SEQ ID NO: 1634 ACATGGAGAGGAGTATGGTGAGCTATTTCTTTTAAAGGATGAGACCTTCAT
 AAATTGGCCCCCTCGGATTCTGGTGATTCCCGCCGCAAGCGCAAATGCTCCAGTGTGTTATGAAAAAT
 GTTGTTAATCTGCTCTGATTCTTCACTGGATTCAAGATTCGGGAGGTCTTCTCGAATCTTTTGGAT
 AAGCTGGTTTAAACCTGAATTGTTACCGCATCATTTTCTTTTCATAAAAAATAGATATATCTGTTT
 AGAATTTCTATAAAAAGCTGCACTTGTAGAGAGGGGTCCATGCACTGATTTGCTATTTTAAAGAGT
 TTTTITTAGGCACTCCATTACCCTCTTGCTTCGTGAAGCTCCTCCGGACACTCACCTTCAGGACCTT
 AATAAAATTATTCATTGGTAAGTGTTCAAGCTTCTGATCACCCCAAGTAGCATGACTGATCTGN

SEQ ID NO: 1635 ACAGAAGTTTTTCATCTATGAACATGGCCTCATCATCACCTGCAGCCTTGGCCT
 TGGCCTGTTCTTCAAAAAGCTGCCGCTGCCGCTGCGCATGGGATCATTTCAGCTCAGTATACGCATTGCATA
 TCTCTTCTTCATGACAAACAGCTCAAAGCGCTCAGTCAGACCCTCTTTAGAGCGGTGCCATTTAG
 CCAAAGGGCTCATTATCTGTGGGTGATCACAGATGAATGTAGGATTGATGCAAGTCACTTCCAGG
 AACTCCCCAACAGCTTGTCAAGGAGCCTGGCTGTGGTCCGAGGTGGAGGGCATTCAACAGCTTT
 TGCCACANATATCATCAAGAAATTTGCGAGTNTCTTCAGTTTCAAAGAGGNCGNTTTGGCAGCTT
 CATCCCCAGGGCTTTCTCAAGCTCTTCTACCATGTTGATTCCCNAAAGGGTGGGGAGAAATCAACA
 TNGA

SEQ ID NO: 1636 ACTTTATTAGTTTAAAAAGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATT
 CTCTCTGAACACACATTGCTATTTCCCATCCCACCCCAATGCACAGGGGTGCAACACCACGACTTC
 TGCCCATTTCTTCCAGTGTGTGTAAACAGGGTCAACAAGAATTCGACAGCCGGATGCTCCAAGAGGG
 TGGCCAAGGCTATAGCCCCCTCCTTCAATATTGACCTTCTCTGGGTTTAAATCCAAGTTCTTTAACTAT
 TGCAGCAGAGACAGCTGCAAAGGCTTCATTGATTTCAAATATGTCAACATCTTCCAGTGACCAACC
 TGCTTTTGAACAGCTTGCTTTATGGCTGGAATTGGTCCTATTTCCATAATGGAAGGCTCCACACCC
 ACTTGGGACCAGGAACTATCCGTGCTAAAGGTGTAAGCCACGTTATCACTTCTGCTTCTTCATA
 A

SEQ ID NO: 1637 ACCCACCAAATCCATGGAGAGAAATTTCTGGTGAAGCAATTGATCTGATAAA
 CAATCTGCTTCAAGTGAAGATGAGAAAACGTTACAGTGTTGACAAATCTCTTAGTCATCCCTGGCT
 ACAGGACTATCAGACTAGGCTTGACCTTAGAGAATTTGAAACTCGCATTGGAGAACGTTACATTA
 CACATGAAAGTGATGATGCTCGCTGGGAAATACATGCATACACACATAACCTTGTATACCCAAAG
 CACTTCATTATGGCTCCTAATCCAGATGATATGGAAGAAGATCCTTAATCACTGAGCTAACCTAAA
 TAAGGAAGGATTTCAATTTATGGACTGATATTTGCTGGTAACTTGTCTTTGTAGATTGTCATCTGC
 AGTGCTGCAAAGATATGAAGAAATATGATACGAATAAGTGACACCAGTACC

SEQ ID NO: 1638 ACATGACCTAATTTTTACATCATAGTAAAACAGGCCCTATGGAGAGAGGACA
 TGGGTTTCTCTGCTNGAACAGCCATTATTTATACTCGTTCCAAGGCTTNTAACATGATGATACTATT
 NCCTCGTATTACCACCATTTCAATATTGATCTGNTGTCNNCTAGACGCCATCTNCACACATTCATCT
 ATCACANGGTTCAATAAGGGATCANATTCCNGCANTATTNNTTGGACATGTCTGCCNCCANTTNAT
 TTCAATGATNACTTCTTGTCATNAATTTTGTCACANTTGGGAGGGTGAGCTTNGCTCNTGGTGTTT
 ACTNCTGGGGCT

SEQ ID NO: 1639 ACGCGGGAATGAAGGACTTGGCAGATGAACCTTGCTCTTGTGATGTCATCGA
 AGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGGCAGCCTTTTCTTAGAACACCAAAGA
 TTGTCTCTGGCAAAGACTATAATGTAAGTCAAACTCCAAGCTGGTCATTATCACGGCTGGGGCAC
 GTCAGCAAGAGGGAGAAAGCCGTCTTAATTTGGCCAGCGTAACGTGAACATCTTTAAATTCATCA
 TTCCTAATGTTGTAATAACAGCCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT
 GACCTACGTGGCTTGGGAAGATAAGTGGTTTCCCAAAAACCGTGTTATTGGAAGTGGTTGCTATCT
 GGATTACGCCCGATTCCGTACCTGATGGGGGAAAGGCTGGGAGTCACCCATTAAGCTGCATGGGT
 GGGCCG

SEQ ID NO: 1640 CGCGGGGACCGAGGCCCATGCGAAGCTTTCCACTATGGCTTCCAGCACTGTC
 CCGGTGAGCGCTGCTGGCTCGGCTAATGAACTCCCGAAATACCGGACAACGTGGGAGATTGGCT
 TCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACCTGATACTAAATTTGGG
 ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTTGAGTGACATTGACCTCATGGNACCTCAGCC
 AGGGGTGTAGCCAAATANTTCTAATGCCACCTGTCCNCTTATCATCTGATTGCAGACANATGGAAT
 NCTGTGCTGAACCCGATCTTNCAANAACANCTACATCTGTGACCANCACANGATGTNCCCTGTGG

CNNCTGAATTTGTNTATNTGGCACTTTTCTCCCTTCCAGNTAGTA

SEQ ID NO: 1641 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
GACCAGGGAAAGTCACCCACGGCTATGGGGAAATTAGCCGAGGCTTAGCTTTCATTATCACTGTC
TCCCAGGGTGTGCTTGTCAAAGAGATATTCCGCCNAGCCANATTCGGGCGCTCCCATCTTGCACAA
GTTGGTCACGTGGTCNCCCAATTCCTTGATGGCTTTCACCTGCTCATTACAGGTAATGTGTCTCAATG
AAGTCACACAAATGGGGGTCATTTTTGTGAGTGNCCANTTTGTGAGTCCAGTAGTGACTGATTCA
CATTTTTTTNCAAATGTAATGCNCACTCNATTGCATTCAGCCCGCTCTNCCANTCATCACANTNTG
GTNTNTNGATNTCCTGAANGAAGNTNGGCCACTNGTGTGTTGANCTNATTAGTTTCTNAGCATGTTT

SEQ ID NO: 1642 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTTTCTAAGTCATTACTTTTTATTTT
GAAGGATTTGNAAAACCTTTCACATCATGGNGAGAGTTTGTATGATTAATAANAAGCAGCTTTTTC
ATGAAATGCTTGGAGGTGAACGANTTCTCAGCCTGTGANATCCGACCATCCCATTAACTTTGAAGT
TTCTCTTGATTAATANAAGAAAAAGGGGAGGGTGAAAAAAGGAGGAACATGCTAAAAACCTT
ATGACAATCATCCAAATGTGAGGAAAGAACACCGATTACCAACTCCACTTTTCTATTTTACAA
CTTTCTACATCTCACTCTTGATTTTGGCTTCTCGGCTGAAACAGCCTGGCANACCCCTAAANCCCTG
AAAGAGCCCTGGTTCTCAAAAGACAGAGGAGGAGAAGCCCTGCANGATGC

SEQ ID NO: 1643 ACTGTAGGAGAGAATTAAATAAAATAAAATAGCTGTAGATAATTAAAAGCTA
ATTAGATAAATCAAGTTACAGTATCATCCTTCAGATTAAAGTGCTCTGATATAACCAATGCCACGG
CAACAGAAATCCTGGAAAGAGATTGCATGCCAATGATTTTGTCTCTTAACCTCAATGTAGCAAGG
ACACACATAAAAGAGATTCTTGATTTAATAAGATTAGATGCATCTTCAACCCCAACACGCTATTAGC
CTGTGATATTCTTCCCCTAGGAGAGATGTCAAGATTAGATGAGATTCTATCATAGCCAGGGAAAA
AAATGAGAAATACCAGAAACATTCTAATTCCAGTCTTAAGTGAGTAACATCAAAATTCCTGAAAA
ATCTCAGCTGGTGCTTTAGCTAAGAAGGAAGCAAGTGCCCTAGTAAAAAAAAAAAAAGCTATAAA
TCTAGTTTAA

SEQ ID NO: 1644 ACTGGGATTACAGGCGTGAACCACCGTGCCCGGCCTTCCCCAGATATCTTCA
AAGCAACTGTAGTCCTGCTTTTGCACATTACACTCTACATTCTCATTGCCCCACTTAACTAACCCCT
CCCTCATGTCTTTTCTAAAGATGTAGAAGACTTTGAAATAGCATAACATTTAAATGGTCACAAAT
CACCTGGCTTGAAAGTGACTAATAATAGGAAATACAGACCTCAGGACTGAGTCAATTTCAAGAT
TCTCCCACTCCACTTTGCTAAGAGGGAAACAGAAAAAATTACTCCAGCCACACAAATATGATAC
TGTGCAAGTATCCCACTCTTACTCATTCAAATCCTACCCATTTTTTCCCATCGTGGAACAGAGTCTT
GCAACTTATACCTCTCTCCAATAACCCATAAAGATGGTGATTTGAATTTGGCCAAGATTTAACATT
TTATGAAA

SEQ ID NO: 1645 ACTTTTTGCTTATGAAAAGAAACCAAGTGAGTCCTCTAAGGATAGCAAAAGGG
AGTATTTTACAGTTAAGCACATGATTTGGAGTGAGAATTCCGATGTTGCTCTGCTGGTCCAGACT
GTTAATACTCTTCTGCTCCTGTGGGCCCCCTTCATCAGGTATCACAAAGCCTTCATCTGTGGC
ATACAGAATGTCTACAATCCTCTGCAATACAGGGTCNGTTTTCCCTCTCGTTCTCTGGCAAATCA
ATTCAATGTTCCGTNCTTTCCNAAGTAGAAATCCCTCTCTTTCTCCAAGTCTTCAACAGNNAGTGTC
AATACGTNGACCTGCTTGATCACTCNGCTGCTCGTNACTCCNATGCCAACCAAGGTACTTTTGAC
CACCCATGGCCAGCCTATNAGCCG

SEQ ID NO: 1646 ACACCTTGACACCACGTCGTCATCAAATTTACACCATTTGCCATCCCCTTTGG
GGTTTAGATAAACCACATAATGTCCACCATGATTATCTCCACTATGAACCAGGACTGCATGAAGA
ATATAATTTGCAGGGTCCTTAGGATCTGTTTTTGCAAAAATTCATCAAGTGGTAACTGCTCTGGG
AATTCAAACCTATCATTGATCTTGATATTTTGGTCCGTCTGAGGGTCATACATAAATCTCATCAGTT
GTAGATGTAACACTGGTGGCAATGTTAGGAATTTACACCTTTCTCTGCTTCTGTAAAGCCATGTTT
CCCANCGTCGTATTTATTGCCCCATCGAGCTGTTCTACTGCACATAATCCACAAATGATTCAAATA
TATTTTTCTTTCTTTGATACTTAGCTGGATATCATAATAATCTTCTCTTCTATCAGACCGATAGTCT
AN

SEQ ID NO: 1647 ACCTGAATGTAGAAACAATGAGGATGGACCTGGTTTAATAATGGAAGAACAG
CACAAGTGTTCTTCGAAGAGCCTTGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAAC
TCAGAAAATTAGTGACCTGGAATTTGTGCTGATGAGTTTCTGGATCCTCAGCCACCTACCGAAT
ACTGGAGGTGGCTGTGGTGTGGGAAACACAGTCTTTCCAAATTTACAAACGAACAATTGACCCAG
GACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAAGTGGTCCAGACAAATGAGAATA
TGATCCTTCTCGGTGTTTTGCCTTTGTTACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCC
CAAGGGCAGTCTTGATATTATCATTCTCATATTNGTCTTCAGCAATTGTCCAGACAAGATGCAGAN
GGTT

SEQ ID NO: 1648 ACTGCATTGTGTTTTATATCTTTAATTTCTGGCAAGGGTAATGGGTTGAATGG
TGAGCCCTTCTAAAAAGGTGTCCATGTCCTGAATCTGGTCCCTGTGAATGTGACGTTATTTGGAAA
TAGGGTTTTTGCAGAGGAAATGAAGGATCTTGAGTTAAGACCACCGCGATCAGGGCGGGCCCTAA
ATCCAATGACTGCTGTCTTTCAAGAGAAAGGAGAGGGGGATTGACACAGACACGGTGAANAAG
GTGCTGTGGGGAGAGGCANGGACTGGAGTGATTCACTCATGGGGCGAGGAACGCCAAGTGCCGG
AGCCACCGGAGCTGGGAGAGAGGCATGAGGCAGCTTCTCCCTCTAAGCCTCCAGGAGGAGCAGN
CCTGCTGGCACCTTGATTTANACTGCCTGCAGAACTGTGGGAGAGTAAATATCTCTGTTAAGCTGC
CTG

SEQ ID NO: 1649 ACTTGAACTGAGTTACTGTGAAGAAAGCATGTCATCCTTGACAATGGATTAA
ATGAAAGTGAGCTAATGCATGCCATTCTCAATCCTTGACGTACACCAGTTCCCAGGCACTGTCTT
TACAAGTGATCCATCCATATTCCATACAAATCCAACACTGCTCCAATGATATATCCTNGTTTTN
AACTTCAGAAATCAACATACATTTACATTNGATTATCCCTGAACAGCCTGTGAGACCAAATACA
CACTTCCCTAATATACTCTAATACAAAATCCTTATTAAAGAAACAGANCAGAAAGTCAATNCCAG
AGACTGAAATANATCTGAAGCAATGTCAATGAAGATGCTCTCTCCTTGGCTGTTGTCTTAGGCATN
TTTTCTGACA

SEQ ID NO: 1650 ACACTTGACTGTTTCCAAAGGGAGAGAGGTGATGTAGTCTTCATTTTCAGGGG
AGAAGAATGGACTGAATTACTGTCTGCTTTTAAATGTTTCAACTAACCATTCATTCGCTCATCAA
GGCCGGTGCCTTTGGTTGCTGACGTTTTGAATATCTGCCATTTTCGGTCCCTCAAGGCAGGTAACCC
AAGTGAATTTGCCATCTCTGAGGAAGTCATGGCCTGTTCCATGCTCTGTTTATTGCAAAACACCAG
TAAATAGGCTTTTCTCAGCTCTTCTTCCCAACATGGCAACTAACTCTGATTTGGAAATGCCAATT
CGGTCTCGGTCACACTGTCTACTACATAAATGACTGCATCTGTGTTTGAATAGTAACATCTCAGT
ATGGCCTGATACTTGTCTGCCTCCTAAATCCCAGACTTGGAATTTAAGGTTTGTACCTGCCCG

SEQ ID NO: 1651 ACAAGGAGACCAGCCTACACAGTCCATCAAATACATCTGCCCTCATAGCCA
AGGAGGTATTCACCTCCTACCGGAATATAATTAAAGGGAGAAATACACTGTATGAAGTATATGT
TGATACTATGACATGTNGCCAACCTTGAGAAGCATTATTTGTTTTNTAATAAAAGTAATGGCTT
NTGTTAATATATTGGTGGNTATAA

SEQ ID NO: 1652 ACGCGGGGGCNGTCTTGTTCTTGCTGGTGTGCGGTGGTTAGTTTCTGCGACTT
GTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAATGCTAAAATTGGGCACCCTGCCCCAAC
TTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGA
AAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAGATCATTGCTTT
CAGTGATAGGGCAAAAGAATTTAAGAACTCAACTGCCAAGTGATTGNAGCTTCTGTGGATTCTC
ACTTCTGTCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATT
CCTTTGGATCAGACCCAAANCGCACCATTGNTCANGNTAATGGGGCTAAANGCTGAT

SEQ ID NO: 1653 ACATTTTTGTTACAGACAGAAGGCTGATTTTGGAAAGAAAGAAACAATNGGA
TGTATAGGGGCTTCTATCAGCAGACTAGTATGTTTAAAAATAGTCTCATCAAGGGTTCTGAATAA
GAAATATAAATGTTGCCAGGCAGTCCCAAACCTCACATTTGATATTAAGTGCAGACTCATTTAAAC
TGAAAACCTGCTCCAGCCTCTCTCAATCTTTACTAAGGACTGGGAGATTATCAAACCCTTCAAGTC
TAATAATGCTTTTGAATTAAGATTATTGAAAAAGGAATCTCTGTTACAGTGCAAGAACATTTTGT
AGAAATTCATGCTACAAGGAGTTAATACAGATGTCCTTCATTAGCAGATCTATCTTGCTCTAAAAG
NANAATATCAAACNTTGAAATAATNNGGTCAAAAATATGGNAACANATTCTACGGGGCCCTNTTTA
AAGCAATCTCAAGTTGTNTTGANCTCTCCAGNGAGGANTTNTTTGAAGACTTACCNACNTACCT
TTNTATCCTTACTTTGGGGNGAGNTCTTTGGATANTCCTTTTNCAANCNTGANGTAATCACCCCC
GCGC

SEQ ID NO: 1654 ACAGCAGTTGCTCAAGAACAAAGTTATTCTCCTTTTCATCTCGAATACTCAGA
ATATGTGATTTTGGATTTCAGTTTCTGGCATTTAGTATGAACTTCATCCTGTGTTGTTGCCATATGCC
TATCTTTGTTATTATGAAATTGTAGCAACAGTTCTGAAATGGTATCCACGGAGTATTTAGAACAG
GAGATGGACATTTAACACTGTCAACTGGTTTGACCTCTTTTTCAGTCTCATTTCTGAATAGTAGCA
AATAGCACCTGTTGATTGNCATTGCAATCAACTGTTTTCCAGAATCATCAGNGNCTAATCTACACC
ANNTTCAGTTTGGCATTAGTTCAGCCCAGCAGCTAAAATTGAAGACGTTCCATTGCAACACCCAA
AGTTGANTCATATTCTTGCTGNAGAGTCCGACCTAAGGAAAGTTGNNAGNGCCCTGCCACTGAGA
ATGCTGNNNGAAGGGCCNGGNCNCACAACTGCATNTCTTTANANCTCTTTTA

SEQ ID NO: 1655 ACCAGTGTGGAGAAATGGGCTGGTTAACTGTGTGGGCCCAGACAGTCATTTG
TCTATATTCCTAGTGATGAGAAATTATTCCTCCCTAACCTTCCAATGAAACAAGTGCCACATAGTT
CTCATTTTTCCCTATTGTTGAAACATTAGTGAGAGGGACCCATGCATGTTATTTAAATTAAGTTC
AAAACACTTAAATAATTCTGTATTAGAACTTGACTCTATCATAAGTCTCTTCTTTTGAAGCAT

ACTGGGCTGGTTAAATGCTCCAATTCATTGTTATTAAACATTTAGGAAGCAGAAACTATTCCAGCTA
GTTCAAACCTAGAGGTTANTTACTACAACACTGATTCTCTGGTGGTTGTGTGGNTTCNNAAAGNCTAC
TCCTNTTNCCTCTGCAGATTTGCTCTGGATTGTGGTCATTCTTTGGCATTNTTANTNTGCCATGAAT
TTTCATTACTTCATTGATNTTTAGGNATGCNCATGATAAANAACATTGGNTTTTNATAGNATGNCTT
CCTGAANNACGNTNTTNTTTCNNGNCGCCTNNTNCGANAAACCTTCATNTAGCTTGTCTTNAATT
TTTACCAATTTGCNTTGCAAGACCTTATTGNATA

SEQ ID NO: 1656 ACATAGACAAGTTTCTTGTAAAGACAGAAAACAGAGAAATCCACAGTAACTCT
AACACATCCCTTAAGGAATAAGCATGTATTTGTAGGAAGCAAACAAAGCTTTCCATAGAGAAACC
ACTTTCACAGGATGATTAGGTGGACCTGCAATGAAGAAAATACATTTCAAAAGATGGGTTTCAGAC
TTACACCAAGTTTTCCTGAAATACTTAAAAAAGACCCTTCTCTGTATCAAAAGAATTAA
AAAAAATACATCACGGATAAAAATAAATCTCAGGAAAGGTCCAAGTCCTACTCAGAGACATACATT
TGCAAATTAATATAAAATTTTAAAGTTTGACACAAAAATACTATTTGGACTCCTAGAATAGGCCAAG
CTAAGTTCGGGTCTGCTTTAGTGCATTTCATTGAAATAATCTCATTCTCCTATAATTTTTTTCTTTTAA
CTTATCCCACGGNTGGTCACTGATTGGCATAGACTTNTAATGTCAAGAATTGTAACTCATATGGT
CCAAAATCTTAAANTAAACAGGCCAA

SEQ ID NO: 1657 ACCAGTAGTTTTTATCGGTAATAAGAAAAAGGATGGCTTAATAGTGCCAATA
ACACAAGTGTCTGCCCATTCATTAGGTAAGTGAATGTAGGCTCTCTGCCACATATCCAGTATAGT
CCAGCGAGAGCCATCCAGTCTGATGAGATCCTGGACAAGCCCCATTATATCAGGAGCTGGATC
AGTGGGCACCAACTCTCAGGCTTCCCAAGGCCATCGGTCTCTGATAGTGGTTCCTCCCGCATATATA
ACAAGAAGTAACATTAAGTAAGAAAATTACATTTTCTGCTAATTTGGANAAACAAATTTTTGCTTT
TTCAGAAGTCTGCTGCTGGCAGATTCAGCTCCTNATAAAAGGTTTGAATACTGGTTTGGGAGAG
CACTTGTGGACCTCCCTCTAATAAAATGGCACTTGAGGGTTAACCCTGCCTATTGATCCCAGGGTN
CACGTTTNCCTTTTCCACGGTGACCTAGGGGATGGTAATATTANTCTAGTGGTTACAGGACCGCAC
ACAGANGGGTGCTTCCCTTNTNANANAAACGGGCTTTTGTNTTTTAGANCCAATANNTGGCANG
NCATTTTACAACCTGCTNGAAAATTTTTT

SEQ ID NO: 1658 ACAAAAAAATCATTTCAAATAACTCAGGAGGATGATAATGGCTGGACTTTT
GTAATTCACCTCAAAGACTGTGGGAGAGCCAACCTCAACTCACTGTATAGTCTGTGCATATGGTGGC
TTGTAGCATGTAGGTTTTTTCCAAAAGAAGGAAATATAAAATGTTTAGATTAGAACCATAAAACT
ACAGGGTGCCTATAAAAGGTGGCTTACTCCTTATTGTTATTATACTATCCAATTTTTAAATGCAGT
TTAAAAAATAACACTGAGTCTTGTTATTACAAGGCAGCAAATGTTTCTCCTCATTTTGAAAAGACT
GACTGCAATGCTTTCCTGAACATTTAGAAAAGAGGCAGTAAGAGTCCTCGGCCGCGACCCGCTAA

SEQ ID NO: 1659 ACTGGGATAAATGAAGAAGAAGGCATAAGGACAATAAACATGGAACCTCCAC
TGCAATGGATTTTATGCAGCTGAGGAAAGTTTGGGCTTATTAGTATTTGCTCCAGCGAACCTCCA
AGTTTTCTCCATTGCGGACAACGTAACCTACAGCTCCTTGGCTCAGTGGTTCGCCTCCACTCAGAA
GTTCCACAGTAGGTTCTGTCTATTATTGTTGGCACATAGGCCCTGAATACAGGTGATATAGGGCCCCC
ATGAGCGCTCCTCCATTGTGAAACCAATATAGTATCATTCTTTCTGGCTTTCTCCATCACACTG
AGGAAGACAGAACCATTANCACAGTGACATTGGTGAATATGTTTCATTGATTCTCACAGAGTAA
TTGACGGAGATATATGATTGTGAGTCAGGAGGTGTACAGTATAGCTCATCAGCGGAATGTTGAG
TTCCTGAACAGAACGCAAGAAGAGCTTGTAATATCAANAGNCTTTCCATCAGGCAGTAAACCTGG
CTGCACGTTGGATTNTGATGCTNCTGAAAATTNCGGGGCTGTNTAANTGTNGCATNCNCAATTA
TTNATANNGNNANAAAAGGCTGNGGTTTCTNGTAANGTGTNCAAGAACCTTTTTTTTAAAAAAN

SEQ ID NO: 1660 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
GACCAGGGAAGTCACCCACGGCTATGGGGAAATTAGCCCGAGGCTTAGCTTTCATTATCACTGTC
TCCCAGGGTGTGCTTGTCAAANAGATATTCCGCCAAGCCAGATTCCGGCGCTCCCATCTTGCAGAA
GTTGGTCACGTGGTCACCCAATTCTTTGATGGCTTTCACCTGCTCATTACAGGTAATGTGTCTCAATG
AAAGTCACCCAAATGGGGGNCATTTTTGGCAANTGGCCAGTTTGTGCAGTCCANTAGTACTGATT
CANATTTTTTTTCAAATNGAATGCCACTCCATTGATTCANCCGCTNTCCAGTNTTNNAAGTATG
NTTCTTGATNTNCTGAAGAAAATTCNGCCCCCTTGGTGGTTTGG

SEQ ID NO: 1661 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATNGGAAANACTGCTTTATT
GGNNGCAGTTACTACAAGTCAATAAATATTGATCCCCAAANAANAGCTCGGTTATTTATCAAATT
ACNNGCCCATANAGAGCTGAATGAACTGAACCAAGCGATTGCTGGGATGACTGAAGTCACTCCT
GCTTCTTGGGAAATGAANCCACAGCCAGCTCATATNTGGCATATNCTGGTCCNCCAACTNTAAAA
AACNATGGNNGGCTCTATACAGNGGGCTTAACNTCCCCNCCCTTAAANANNANGGGAATTNCAT
NAATCCTCCNGGAACANTTTTGNTTTTCCGGANCTTTTTTTTAAATGCC

SEQ ID NO: 1662 AACTCTCCATCTTAAATGAGCAGCGCATTCGGGGCATTTTATGCGATGTCAC
ATCATTGTGGAAGATACCAAATTTAAAGCCCATAGCAATGTTCTGGCAGCTTCAAGCCTGTATTT
AAAAATATCTTTGGAGCCATACAATCTGTATTTCCAGCCACGTCCTGGAGCTGGACGATCTCAA
GCTGAAGTGTCTACTGAAATACTTAATTATCTACAGTTCCACAGTCGTTGTCAAGAGACAGGAA
NNNGTNTCTGACTCNNAGCTGCAGNAAAAAGCTGGAATATCGTTCTNTGAANGANCTTNTCTGGATC
GCTACTTNTCATATTTCCCCGNTCCCTNTGTNTCTGGNTTACTGAAAAGGNANTGTTAAAGAANA
ANANTGAAATATGCATGNATAACCNNCCATACNNANTGGCCGGNGATCACNTTAGNGTCTCCNTA
TCGTAACAGAA

SEQ ID NO: 1663 ACATCTTGCCTAGATGTGCGATGACTGCAAGTAATAATACAGTTTATAATGAA
ACTATCTACAATTCTTGTTTTAGCACATCTGTTATCCGTAAAAACACCTGTAAGTACTAGCTTTTAAAT
TATTATTTGAATTTTAGGATAGCGAATCACTAATTTTAGTTGCTGAGGTTGGCATTTTAGTGATTA
TTAAGCACTTCTGTGAGTCTTTGAAAAAAGAACGTATTTTGTGCTTTGAAGATCTCTGAAGAATT
TCTTTTATAATAGAATGGGCATGTATTGTAACAGTTTTATGTCAAATGATCTGTGCTGTAGAAAA
CATTAAACCCTTGTCAAAAAAGAAATGGATAAACTTGCCTTTCTAAGTGGTAAGAATGACCTGTACT
ATAATATACTGATGTTTACATTTATTTAAATTAATCTCTTATGTTAGGGNGATACCTCCCCANAACA
CAGTGATGCGATGTTCTAGAACTCTTAAANGCCCATTTGGCAGACCTTGNCGGACCCCTAGGCAATT
CNCCTGCGGCGTNTANGTCCACCGTNCANTGNGTATANGGCAACTGTTCTGGGAATGNTCCTN
ATCCNNANNCAGNGACTTANTGAAGCTGGGGGCATAGGG

SEQ ID NO: 1664 ACACGGCCCCCTTCACTTCCTTTTCAGCCACAGTCTGTAGTTTCCATCCGAAT
ACTGAAAGACCACAATGCGACCTGCTTGGGCTCTGCCTCTTCAGGATACACCATGCTGTGCCCA
CAATGAAGTAAGTGTGGGGTCTTTGCCAGCTTGCAAGAAACCAGACTGAGGGCATATTCATTCT
GCAGAACTGGTGGGCATGAAGCACTTCAAAGGTGTGTTGGTCAATGATAAAGTAAGTTGTGCAC
CTCCACCTNTTCTTCAAAGGAGGGCTTATGAAGAACAGTGCTGGTGGANAACAGCTTGCTGGANC
TTACACTGNTGGACAAAANCTGGGTGCTANCCTTGGCCTTAAAGGTGTGCGCCCCACTCGTGT
GGACTTCAATGCGGTGGAGAGGACCCGAACATNGGACCTTCTGGTACANATCTTCTTGGAACTAT
ANAGGGACTGNGCAATGNCACCTTGGATCTATNATGGGCCANNGNGAGGNNTNTGTGGCACNCC
GCTGCNGNACCTTTATT

SEQ ID NO: 1665 ACTACAGCAGTCAAAGAGATCTCCACTAGAGATCAGAAAGAAGCACCCTAT
TTTCTTCTATGACGTGTATGTGTTGGTCATGAGCATGCTAGTATGAATAAGGCAATGTGTTAAGCA
CTGGCATACAAATGCAGCTAAAGGTGCTGAAGGAAGGCAGTGGGGTGGTGCAGGCACACAGCAG
GGAGCTCTTCCCGTGACACAGTTAGTCATCTTCTCCACAGAGCANCAGAAGAGCTTTCTTATAGT
CCCCAGATGTATTCTCCCTTATCATGGAATAAAAGAGAGGNGCAAAATCTTCTTAACCTCCTTCT
GATGTTAAACAGATAAATCTCACTCCTTGGAAACCATGACTCTGANAGGGTGTATCATNCTGNCCG
GGCGGCCGTCNAAGGCT

SEQ ID NO: 1666 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
GACCAGGGAAGTCACCCACGGCTATGGGGAAATTAGCCCGAGGCTTAGCTTTCATTATCACTGTCT
TCCAGGGTGTGCTTGTCAAAGAGATATTCGCCAAGCCAGATTCGGACGCTCCCATCTTGCGCAA
GTTGGTCACGTGGTCACCCAATTCTTTGATGGCTTTCACCTGCTCATTTCAGGTAATGTGTCTCAATG
AAAGTCACACAAATGGGGGCCATTTTGTGAGTGGCCAGTTTGTGCAGTTCCAGTAGTGACTGATT
CACATTTTTTNCAAATGTAATGCACACTCCATTGCATTTCAGCCCGTCTTCCANTCATCAAGTCTGGT
CTTGATATCTGAAGGAAGATTCCGCACTCGTTGGTTTGCACCTNATCATGTTCTNAACCCCGCTTNC
TGCCGGGCGGCCNTTCNAAGGCN

SEQ ID NO: 1667 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGCNAAGTTTCATTTATTTGNGC
AAATACAGGCATGANCAAAAATGTTCTAAACAANGTAACGATTTCCAGCATTGATTACANAATTT
CCTCTGATCATTTGATTNGGTTATANATGAATTNAACTTCAATTTAAGCTNGACTTTTAAACTC
CCCCTNTGNTTCTGATGAACCACCATAATTCCTAAAATTACACCTAANCAAGTCTGNTTGCACA
TTGGGGTTGCCTTAAAAACATTTAAATCTATTTGGGCAAGGCGGTGGAACGAGGTTGGGATGGC
ACATGATTTATGCTAATTCTGTTNGACCCTGAACNAAACATTGCATTTTATTTAGGGGTTCAAA
TGGGANNATNTNTCTGAACATTTTGGCCNCCTTATTGGAAAAGTTTCTGNACTGGGGGGCCNAA
GNTAAACTGGGACTNAAAATTAGGGGANAANNNGCCTTNTTTGNTNAGGGCNNNATACTAACNA
CCNCNTAGAANNCCNNANAGGTTTANCCGGTTGTTTTTCCACNCCNATNAAAAAACANTTTTTTG
TAAATTTT

SEQ ID NO: 1668 ACAGAGCACATAGACCAAGGATGGCCAGTAGTAAGGCATGCTGTGCTCTCC
AGTGGGGTCTGAGGCAGTTCAAATAAGGCCTCCTGGAAGAACGGCCCCCTTCTTCAAGGAGCTC
GCCTCTCAGCACGCATGGGGTGTCTGCGGAGGGAACCTGCCCTTGGCTTTCTCTGCAAGGCTTCTT
GGCTGTTATGGACCCGCATGGAGTTTAATTATGCTTAGCATATATTTTGGCATACTAGGATTTCTT

CCCCTAGGATTTGCCAAAAGAGGGGANGGATCAAANTTTGGCATGCTGGGGGAACAACTCNCCCC
 ACTGATTNNAGAAAAAACAACANATNGAAGTAAANACNANATAATACCAACTAGGTAGAAAA
 ANACCAGATAATTTGNAACCCTTTNTTGGTTGTTAGATAAA

SEQ ID NO: 1669 ACGCGGGGGTCTCTGGTTTCTGGCCCCTTGTCTGCAGAGATGGCTCCCAATGC
 TTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTAATGACCTTTGATGCCAACCCATAT
 GACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCTGTGCAGGACCAGGT
 TCTTTTGTCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGACAAAGA
 GAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCTTGTCTTGTG
 GAGTCAGGTGATGANGCAAAGAAGCCCTCCTTCAGGTGCGAAGNCCAGCTNATGGCACAAGTGA
 AAGCAATGATCGAGACTAAACGGTATAATCCTGAGACCAAATTGTGACTTGCAATGGAAGANCTG
 GAAAATGGGAAATATGCAAATACGNTTAAAAGGCNATTACTTTCTGATTNTGATGGAAGGTGAC
 ACCTGGGATGGNGTGGANGGTNAACTTTTNTTAATTTTAA

SEQ ID NO: 1670 ACCCTTGCCAAGTTGTCTACAAATGCTTTGTGCGATTTTCTACTGAGTTAGAC
 AAAGTTGTGATTTTTTCCCTTTCTTAACACAAATTTAAAAAGTAGGAAACAAAACCTAGTGGATA
 AAATGACATATTTCAATATGAGTTCTGTGGCAGTCTCACATGGAAGTCAGGAGTAACAGCCTCAA
 TTCCTAAATAGCTGTTTACCACTGCTTTTCTGAGCATATTTAAGTAATACAGAAATATAAAGGAGCA
 AACAAAATATGAAGTTTATAAAAGATTTCAAACACTTTTCTAAAAATATGAGGCCCATATTTTGA
 GGTATTTTCAATTCCTTTTCTCAAACAATATGGAGATTTATAAATATGAGAATATATAGATATACAGA
 CCTTAATAAATGAAGNGTTCTTAAAAATTTTATATGGAAACCAGTAGCTTTAATTCTCCAATTTTAT
 GGATTATCCAGATCAGGACACTCCTGNGCANTTCCAAAATNAGGCTACAGGACCCAAAATTGAAAA
 TAGGATATTTAGCAGAGAACTCATCNTGTGNACATAATNCAGTGATTCTCAATTCTAAAAACAA
 GAGACTTTGACTTGCAACAGGNTTGCAAGCATCAACTTANGTG

SEQ ID NO: 1671 ACCAAGAACCGCTTATCCAGATTAATATAAGTGAAAGCCTTTAAATGCAGG
 GACGAAAGGTATCCCTCTAGCCATTAGTGGCACCAACCGATCCAAAGTCTCCAGCACTCCAAC
 GGCAAGAGTAATGCTTCTGCTGGGCTGAAACCCATCTTTAAGACCATATCTGAGAATCTGGGC
 AAGTTTCAATAGGAGAGCTGTGCCTACACCGGATTTTGCAGCTCCAGGGCCCATGCATCTCTCTG
 GGCCCCAACTACAACATAGTGATCTGGTCTACAAAGCCTTTAATAACTCCAAAGATGTTAAGAATT
 TTTATCTCTTTCAGCACATTGTACAGNGAGCTTCACATTCTTGTCTGAGGTTACCATCCTACAT
 GTAGAGCTGTTTNCAGCAGAGGACAGCTCCTTCATATCCCAACAGNTTCTGCAGCAGTCTGGAG
 ATGNCTGACAGTATATTAGCATCTGATGACGANAGGTGGAAGTATGTGATGAAGAAGGATCAGG
 TTTANGGCACTGNCCAATAGCTGTCAANAAGAAAGTTTGGNTACATGGGAATTANNTGNCCNGTT
 NTACCCCATGTTAACTTNACTTTGACTTTTNGAAGGGATTTCTGC

SEQ ID NO: 1672 ACCCCCAAATAGAAAGAAGTGACTGGATGTTGGAAAACCTTAAAAAATGATAC
 ATTTCCATTACATTGGTATTCTATTGTATAAACATGCCATAATTTATGTATTAATAACTAGCCACTT
 CTTGGTGAATATTCAGATTGTCATATTCAATTTTTTACTAGCAAAAACCACTGCTGCAAAGAGAAT
 TATTTATGTCTTTGTGCATTTTGTAAAGTATATCTGTGAGATTAATTTCAAGAAGACTGTGCTGGAT
 CAGAGAGTATGTATATTTAACATTTTGTATGTAGCGCGGGCATGGTGGCTCATGCCTGTAATTCAA
 AACTGAGAGGCTGAGGTGGGCGGATCACTTGACTCATGATTCCAGACCAGCCTGGGCAACATTTT
 TTCATGGGCAAAACCCGGGGAAGAAAATTTGAAAAATTTCAAAAAAAAAAAAAAAAAAAGNCCT
 TGGGCGAACCACTAAGGCGATTACNNCTGGCGCGTNTNGNGNTCGGCTGGACCAACTGGCGN
 ATATGGCTGTGTTCTGGGGAATNTTTCNGTCNATTCACAATTCGCCGGAACNAA

SEQ ID NO: 1673 CCAGTTCTTTTACAATACAATATTTTGGTATTTAAATGACCTCTAAATGGTTA
 ATGTGCAATGAATATCTTTTGTCTGAACTCAACNTGAATTACGATNCCATCANTATGANTATT
 CTAANTCATAAAGATGTTGGGAAGGTTTGTAGTCTGCATTGNGAANNNGNTAGTACCACANACTC
 TTTNCTTTANAACCCAGGATGACCAATCCACTGAAAGTGCTTTTGAAGATTGCTGATNACTTATGG
 CTGATCTTAAAAATCNGTNNATCANANTCAGTNNCTTTTTTTTTTTGAANCNTCNAAAGGCATTTAA
 AAAATCTNAAACNTTNGCTTTANTATCTACTGAGGCANACTCAAATTGATTATCNGCATGCAANAC
 ACTNCTGTTATTTTAAATAGTGNACAACTATCCATGNATAAANACGGGTNAAGAATGCAGNNT
 CTGATCCTGATTCACAAANGACNNGCTGTGATANTACATTAACCNNTANGNCAAGCTAGNTATNN
 ANAGCANTTATTTGTTATTTAGCAANNNGCNCCTTTNCTTGGAAATNAAATGTTGGCCANTAT
 TTTGTNGTTNAAAAANCCCAAAAAAACCTTTTTCCCGGTNGGGANTTTTTCTAAAAACCG

SEQ ID NO: 1674 ACGCGGGGCAACTGATATATCTTTAGGGTGAGTTACTGAGGCTGTTTCAGCTG
 AGGCAGCATCACCCACAGAACACGATGTTGAAGATACTGGTTTCTCATTACTGAGAGCGTGTTGGT
 CATTAGTCTTTTTAAGTGGAAGGCAGGCAGCTTCTTTATCTGTCACTTGGGATATTTTCTTTCCCA
 AATAACAATATGTATCTCTGAAGCAGGAACCTCAAATTTCTTGTGCCTTTCAGAACATGGGCCTTT
 TAAGTCATCACATTCCAGCCAACCTTCATCAACATCTAAATCCATGGTATAAAATGATTATTTCG

TCGATACTGAATTACAAAAGTATCTTNATAAAGACAGCCTTCAAAATGAAATGCATAGGCTGCAA
GCATCTNNGGAGCCTCTACAANNGCACATGAATATGGGAGATCTTTCTAATNCAATTTTTNTAT
TGGGATACTGGTGNAAATNGTAATGACCAAATGGCACCATAAGTGGG

SEQ ID NO: 1675 ACAAATACGAAACAGGATTATCTGATAGTAGGCCTCTGTGGATGGCATCAAT
TATTCCACCAGATATGATTCTTACTCTTTTGGGAAGGGATTACAGCCATTATCCATTACTGTTTGTG
GATCCAACACACAGTATCACCAACTTTTGGTCACTGTAGACCAGAAACACTTGTGTTGAAGCACGC
AGTGGAAATCCTCTCAATCCTTCATATGATCATGTCTCTGTGACACTGCTTTGGAGCATACTGCATC
AAGCTGATTCTTCAGAAAAGATGACTATTGCCGCATCCGCATCTCTTACCACTATTAATCTTGGAG
CTACAAAGAAGCTTGAGACAACAGATTCTTGAATTGTGGCCCCATTTCAATGAATCATGGNGTCACT
TTATGGCTGCATTGATTTGTGTGGATGAAAGAAGACAGAAATNAAACCAACCCNNGNCAAGNCATT
CCTGCAGCNGTGAAAACAGTTTATTAGGGAATGGTCGTCAATCAGGGCTGAAACANAAACNTTTC
NACTNTAAAAAGTTTAAAGCGCNCANCTGCCAGGCAAAAAATTTNTTGAAGCTNNGCTTAGTTTTT
TTCTNTTCAANATCAGGCCATTATGG

SEQ ID NO: 1676 ACACAATTATGAAACTATGCCAGTAGCGACCTGCATGTTTGTCTCATCTCTTT
AGCCACTTAAGTTCTCAAAACACTGCCAAAGCTTTCCTTCTCTATTAAACTCCCTTAAGCATTACTC
ATACTATTATTCAAGTTTAAGATGTGGCAAATCTCCCCAAGTGTATATGGCTGGTTCTCTTCTTATA
AATGAATCCATAAGACAGTGTCCCCTAATTCATCTCTATTTTCTTAACCTGCTTGATTTTCTAAAA
TTGGAAAAAAGTAATTCCGGTATACTAAAACAGAGCCAGGTTTCTCAACATCTTCAGTTGAATG
ACTTTAATTCCCAATTCAAGGTATAACACACAAATGTANCTGCGCTTACAGTATAGAAGCTGTAG
TGGTGGTGCTTTGGTTAGGGACCATTACCAGCAGTATCTGNTTGCACCCCGGTCTTCTTTAGCTCA
AAAANTTCANAATTGTATGCCATGGAGATTTTACANAGCNCCTCNTTCAAAGACAAAAAATTTAT
TGGTT

SEQ ID NO: 1677 ACACAAGGAAAGAGCCCAGAACCAAGCTCAAGATACCTATTCAAAGATCCCT
GCCAGCCAGGTGGGCAGTTGAGTGCAGATTCTGCGACCCCGCCATTTTGTCTGCTACTTAGAA
GGGAAGTCAATGGCATACCCAGGATTCTTCTGATCCCTCAAAGAAATGGGGAATAAACACTTT
AAACAAGTTCAGGCCACTCAGCAGTGGTAGGAAGGGAGGGCATGGAGGAGGATGGGGC
ACATAGCTGACATTATTAATAAACACATCCGAAGAAGTAGGGGGCCCTGTGGGGTGTAGAANACAA
ATAAGGCATCCTGTGAACTACAGACATCAGGGGCCAGAGTCCGGTAGCACCTGATTAGGCAAAT
GCAGATGATAGGCGGTGAGCCGCCAGGCTCCACCAGGAATGACGAAGTCTGGTTGATTCTCTTCC
TTCGGCATAGCTGNTGTAATCACNTCTACTCNAGTCCTTCTTGTCTGCAAAGNGCCTGGTTAGGC
AANCAATGCAAAACCANATCCAGANATCGGTACAAGGNCGTGGCCNATNACCCANTCGTCAAAT
TCTGCCCAAATTGANCTGGGGCCTCCCTTCGCCTCNACT

SEQ ID NO: 1678 ACGCGGGGGGATTTGCTGAATTAATGACTATTGAATTTAAACTAATTATGA
GTTGACAAATAAATAAAAGGTAGTGTATGTCTGAGCTTATTGTGTTGAGCTAACACCAGGTTA
CTCAGTAACCATGACCTGCTCCTCCATTTCCATTTATTCTCAACATTAAATAGTTTTATCTTGTGTT
GCCAGAAATGCACTTGTGCCAGGTATTGTCCCTGCTGTATGAAAAGCTTCTTGCCAATGAATTCTG
TAATAGTGCCTACATTNTGGTTTTTCTGGGNGGAATTGTTTAACANTNNCAACCCAAGGANTTNC
CAATATANTTTTGTTTTATTGTNTTCCAAANATTCACT

SEQ ID NO: 1679 ACTAAACCCAGTAAAAATGTTGAAAATGTTAAAGGTCAGCATGTTCTAATT
GGGAATCTAGATATAGCTTAGATTTCTTATGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAA
TGACAATTATATATTCCTACTCGGTCATAGCTGGCTTCGTTCTCTTAATATACTCAGTAATGA
CTCAAGCCTCTGGCTATTAACATACCCTAGTTGCCGTTTTTTAATTGCCATGAGCCAAATACTTCTT
GGTATACAATTGATCCATTTATTTTAATGGCTGCCTTTTTCATTTTCATCTTTTCTTGTCTGCTACCCAT
CTATGTATGTAGCATTGGGGGGAAAAATGTACCACATTTTTTATGGGAAGACTTTGTGTAAAAGTGA
CATTTGAAGGTTTTACTGGGGAACCTGGATATGCCCAAGACTGAGTGGAATCGCCCTTTGAA
GGNGCCTTCTTATGACCCAAAGTTGCTTTAAAAGTCATTTGAGGGATAAATGTATTAATTTGAATA
AGGNGGTACCCNNAANANATNTACTGTTGTGGGANGGGGAATTGTAAAAAGACTTATAANTTTN
TGCCAGCAAAGNTCCTAATT

SEQ ID NO: 1680 ACGGTATATATATTTTAAATATTCTCACACACACATGCAATCCATAAAGCAAT
TATTTTAATGTAAAGAGTGAAAGTAAATGTAAGCTCCATGAGTTTGNTCAATGTTGTGTCCCCAG
CAACTACAACAGGGCCTGATTCCTAGCAGAGACTCCAGGAATATTTGTGGAATGGTTCTCATGNT
AGNCTCAAGGCTATGAGGGTCTTATATGTGGAGGATGGGTNACGAACACTANANATGTGGNTGTG
CTTTATTTTANCCCGAGAACAAATAANTTTA

SEQ ID NO: 1681 ACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGAT
TGTCAGAGCAGGGAAATCACCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTG

GTGTGTTGATATACATGGACCAGGCTAAATTTCCCATTGTAAACGCAGAACTTTCATTCTTTGGAC
ATGCTCATCTGGGGACAGGTGACCCCTTCACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTCCC
CATTTTCGGCATNAGGATGGCTAATATCCCTGTCCAGACAATCTCCANNCTGNTGAAAAAAGCTGT
TGGGAATATGGANGAGACTGTCTTGTCTGGAACANACTCTCTTGTAGGATGGNACCCTANAAAG
CAAGAATGTGAANTNCTGTGANCATNGCTGAAGAGTAAATCTTACCTCTTGNGTTTAAANGCTTT
GNNACCAATCCTTTTNNANTNGGCCAAANAATCATGGGGCCTGACTNAAATCGGGG

SEQ ID NO: 1682 ACGCGGGGATTAAATGTCCCAAGCAAGGATAGGGAAGGGGAATGGTTGAGT
CTCTGGAGATCATTGTAACCAATCCTGCCAGACCTGTTTGGGGCAGTGGGGAGCAAACCTAGATA
AGGACCCGTTTGGGGCAGCAGGGAGCAAATCTCCTTTAAACAACCAAGCAGTTCCTCATTACAT
CAACAGAGCGAGGCTGTGATAACTTAGGAGGCAGCAATCCTAATAGTCCTTCAGTTGCATTTTAGT
CTGTCTCCAACCTGGACACCATTAGGCAGTGTGAGCCNGATATTGGGGCAGTAGATAAATGTTTCAT
TTACTGATGCACTTTAGTTTTTGGCTGNTACCTGTTTCCAGAATTTTNGGCCTTTAGGCGG

SEQ ID NO: 1683 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCGCANATTTGAGTAACTTTATTTGCATTT
TATAGNGATTTCTTAAGGCCTATATCCAATGAAACCATTTTAAAAGCTCTATGAGGAGNNGGAATTT
TANATGTCTATTACACTNGTCTTTTAAAANAAAAATGCTTAAATTTCAAAATGANCAANATTCACT
TTTGTAGGTANAGGCCCTGCTTCTTCATGATCTTCAGTTTATAGATCTAACAACCACANANAAAGA
AGCTGGATATCTNNTNAGCTTTNGNTCATTCAAAAACCTCAAGTCACCATAGATACTCAGCTTCTN
AAAGGGAACATACTGNCCACAGNTGTANCAACAGTTGCNCACAAATCCAAAGCATNCCTCCCGAG
AGGACAAGAGTTGAGTTAAATCCCCAGAGTAAGAGAGAGGCTTCTTAAAAGCTCCTTTCCCAT
CTNCAAAAAATCCTGNGCGCTTGNAATCTCATTGCAGTAGGCATTTGCTANAGAGATCTTAATTG
GAGCTCTGTN

SEQ ID NO: 1684 ACCGCCAGCTCTCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAA
GCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGGATTCGTGTTCCCGTGG
TGGCCGAAAACGCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGTGTTAACC
AGNTAAAGTTTGCTCGAAGCCTTCANGTCCGTTGCAAAGGAGCAAGCTGNACGCCACTGTGGGGC
TCTGAGAGTCCTGAANTTTTANTTGGGTTGGTGAAGATTTCCACATACAAATTTTTTTGAGGTTTNC
TATTTGATCCATTATTAATGTCTTTAGAAANAAATCCTTGTACCCAGTGANNACCAACNNTTN
ACAAGCTAAAGGGANATNNNGGNTNCATTTGTCAGGCTAAANATCTTAGTCTTNAANGGCNANANT
NTNANACCTNTTGGNGNTNTAGNNGGACNTAGTAAATGGNATACTTTCCAA

SEQ ID NO: 1685 GCGGTCGCGGCCGAGGTAAGTGTGAGCCCTCGGCCAAACGGCCAGACGCCGAC
GTCGACCAGCAGGGACTGGTAAGAAGTTTGTAGCTGTAGGACTGGGTGTTGCAGCTCTTGCAATT
GCAGGTGCTACGCATTTTCGGATCTGGAAACCTCTAGAACAAAGTTATCACAGAACTGCAAAGAA
GATTTCAACTCCTAGCTTTTCATCTACTATAAAGGAGGATTTGAACAGAAAATGAGTAGGCGAG
AAGCTGGTCTTATTTTAGGTGTAAGCCCATCTGCTGGCAAGGCTAAGATTAGAACAGCTNATANG
AGAGTCATGATTTTGTATCACCCNATAAAGGTGGATTTCTTACNGTACACCAAAATAAATGAAGC
ATAAGACTTGCTANAACAACCAACCAACATTGNTGTTAAGACCCACCAAAAAAAAAAAAAAAAAA
AAAAAAAAANNTCNTGCCGGGCGGCCNTTCNAAGGCTAATTCCTCCTGCGGCCGT

SEQ ID NO: 1686 ACTGTCGGTTTCAGAAATGCCTTGCAAGTGGGGATGTCTCATAATGCCATCAGG
TTTGGGCGGATGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGATATCGACCA
GCTGAATCCAGAGTCCGCTGACCTCCGGGCCCTGCAAAACATTTGTATGACTCATACATAAAGTCC
TTCCCGCTGACCAAAGCAAAGGCGAGGGCAATCTTGACAGGAAAAACAACAGACAAATCNCAT
TCGTTATCTNTGACATGANTTCCTTATGATGGGAGAAAAATTAATCANGTTTAAACNCTTACCCCC
TTNAGNAACANACNAAAAGGGGGCCNTCNANTTTTAAAGNNTGCCATTTCTNTCCGGGGNGNTGG
GNAGGANACNCAGATTTNCNAANCTTCGGGTNGAAATTTGGACTGAACNACAAATAANCTTTTC
NAAATTTNGGGTCCACAAAATTTTACCANGTGCTNTTGANAAAAANAGGGTTTTTTTTTCGNGGCAA
NTTTANNGGNGTTTTANAACCTCNAAACNTTTNNGATTTTTTGNCCNATTTTTTTTTTGGGATT

SEQ ID NO: 1687 ACCGCGGGTCCGTCAAGCTGGTGTGCTTACTAACCACATCCACAAAGCACA
CCATTAATCCACTATGATCAAGTTGGGGGGAATCTGGTGAAGGGTTCTGAATATCTCCCTCTTCAT
CCCTCCCGAAATCTGGAATACTTATTCTATTGAGCTATTACACCAGTTTAAACACCTTCTCGTGTT
ATGTTTAAAAAATAAATTAATTTAANAAAAACCATTTTAAATAATGCACAGTTGCAGCCTGNAA
AACTTNANGGGCNCTTATNTNTCAATTTAGGAACCTTATTGNGCATTTACGCACTGGAATGCA
AATCCCTTTGCTGTGTAAGTGAAAATATAGACTGTATCTTGTGGCCCTATGAAATTCTGCCTTTTA
TTATATACTCTACCTTCATTAATACTTCTGGCAAGATGTCTGCTTAGCACTCAGTTGCATTCTTTCC
TTTTCTNCTGTCAATAGCTTAATCTGAGACATNTGAGGAAAATTTATTTTTNAAAATNNAAAT
TGTTTNGNAANCTTTTAAAGGTGGGGCAATTTAAAGGTTTTTTNATTTTTNAAANTGNCANCCNT

AAAAAAGTGGTTTTNAAAGGNAATTTTTCCAAGNAGGTTTT

SEQ ID NO: 1688 ACTACCAGATAGAAATTCTGAAATTGGAAATTGGAGGCCAAAGCCTTAATCT
GGACTGCAGAGAGTATAACGCAGACAAGGCCATCGTGGACAGTGGCACCACGCTGCTGCGCCTGC
CCCAGAAAGGTGTTTGATGCGGTGGTGGAAAGCTGTGGCCCGCATCTCTGATTCCAGAATTCTCTG
ATGGTTTCTGGACTGGGTCCCAGCTGGCGTGCTGGACGAATTCGGAAACACCTTGGTCTTACTTCC
CTAAAATCTCCATCTACCTGAGAGACGAGAACTCCACAGGTCAATCCGTATCACAATCCTGCCTCA
GAAATTGCAGGTGCTGCAGTGTGAAATTTCCGGGCCTTTCTCAACAGAGGATGTAGCCAGCAAC
TGTGTCCCCGCTCAGTCTTGAGCGAGCCCATTTGNGGATGTGTCTATGCGCTCATGAGCGTCTGTG
GACCATCTCTTGTCTTATCGTCTGTGCTGTGCGTCCGGTGTCAACGCTCGCCCGTGACCTGAGNCGC
AATGATGANNCTTCTGTCAANTCGTGAATGANTNCCNGCCTACTNACANCNTGACTCAANTTA
GAAATCCTTTNCGCA

SEQ ID NO: 1689 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCCAATCCGTTTTTTAAATTCTTAAATTC
TTGACATTACAGAACTAAACTGAAATTTATTAACATTCCACTCTTACATTTCTTATCGACAAACAG
AAATAAAATTCATGAGCCAAAAAACCCAAAAACAAACTAAAAACAGGGAAAAGCTTATAAACT
AAATATGGATCCCAGCATTAACAGCTGAACAGANAATGNGATTTTTAAATTCTTAGCGGATGATA
AAGTTGTGTAGAACTGAACACTNACAAATTATTTAAAACCTGGAATCACTGCCANAAATTACNC
ATTTGGANCTTGGGANAACAGCANAAANGGGGTATTGAGGGACCTACACTNCTACTGCCCNTG
CCCTTTTAAAAGCCNGNGTACCTGCCGGGCGGCCGTTAAAGGGCGAATNCANCACACTGNGCCG
TACTANNGGATTNACTCGNACCAACTTGGNGAANTTTGGNNTANCTGGTTNCTGTGNGAATTGTT
CCGTCACATTCNNACANACGACCNGAACANAAATGAAACCTGGGGCCNAAG

SEQ ID NO: 1690 ACGCGGAAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTC
CAGTTACTGAACTTTTCAAGCAAGTGGACCTTTTGAAAGTCATGATCTTCTCGGAAAGGTTTTCTTG
TGTGAAAAATGAACTTTGCCTAGTCATCCCCCTGAATTATCAGAAAAAAATTTCCAGCTCAACC
AAGATAAAATGAATTTTTCNACACTTGAGAAAACATTCANGGGCTATTTGCTCCGNTAAAAATTACA
GATGGAATTCAAGGCAGTGCAGNAGGTACCCGCTTCTTTCTTTCAAGCTCAAACTTTCCCTGGAT
GTTTTGAGGGTAAATGATGAACTATTGGAATTTAGGATTTTCTTATTNTNCATCCCAAACCGNAATC
ATGGGAGANCNCGCTTGNTGGGGAATATAACTTGGTTACTGTATAGTGGCTGTATGGAACCGAG
GCTGATCTGTTATAGCATCTTGTNCTC

SEQ ID NO: 1691 ACTGGGATTACAGGCATGAGTCAATATGCCCCGCCCCGAGTCTATCTTCTAA
AGCTGCATTAGGTGAGGTCTGACTTGCTGATGAGTTCCCTCCCCAGCCTACCCTGAGCTGGCCTCTC
TCTGCTCAGTTGTGCCATCTCGCCTCTGGCCTGAGGCCAACCAACATGTGGAGCTTCTTACCCAGT
GCCATTTTAAATGACACTTCATACTAATATTAATAATAGCTAAACATATGTAACATTTATTATG
TATAAGGCATATTCTAAGTGTGTATATATTAATTAAGTATTTATTACTGCAACACTTAGGTTGAT
GTCTTCTGCAATTTTACAAATGAGGAACTGACCACAGGAGATTAAGTACTGCTGCAAGGTTATACA
TCTGATGATGGACCCANGTCTATGTCACCAGAGTCTGTGCCTTAACACTACAGATAGCTGCTGAAG
TAGTTGTGCTGAGGACCAGTTANGAAAATTAT

SEQ ID NO: 1692 ACAAAGAAAGTTTTAAGTCAAGGCCTCACCAATTCCTACAGTATTAGTATTGT
GTCTCAATTCTCAAACTAACTTTTAAAAAGCTTAACTTAACTTAAAGGATTTTAAATGAAAATA
TAACTAGAAATGAACAAACATGAGAAATATTTCTTTGAATCAGGGAGCTAGCACCTTTGAGTTTTT
CAAAAAAGCACGTCTCCCCAGTGTGTTCACTGTGATGTGGTGTAAGATCCACATTTAACATACT
TAACTACTTAACTTAGATAACATCACTGGAAGTATACTACCAAAATGTTAATTGAGAAAAGCT
GAAAAATAGTTTTAGTTTACTCATTATCAGATGCTAGAAGAAAATTTGTCATGAGAAAACACTGAAG
AGGTAATTTTTTAATCCAGATTTTTTCAAACTCATGGTGCAAAATGGGCCCCAGCTTCCTCTATTAT
AACTGCTCTTAATTGCTTGTGCTGCTGTGAAATGTTGAAGTACTCAN

SEQ ID NO: 1693 ACATTACACTAAATTATTAGCATTGTTTTAGCATTACCTAATTTTTTCTCTGC
TCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTTAAAAATGACAGTGGAAGTTTTTCTCT
CGAAGTGCCAGTATCCAGAGTTTTGGTTTTTGAACAGCAATGCCTGTGAAAAAGAAAGTGAAT
ACCTAAGATTCTGTCTTGGGGTTTTTGGTGCTGAGTGTGATTACTTCTTATTTTTCTTACCAATTG
TGAATGTTGGTGTGAAACAAATTAATGAAGCTTTTGAATCATCCCTATTCTGTGTTTTATCTAGTCA
CATAAATGGATTAATTACTAATTTCAAGTTGANACCTTCTAATTGGTTTTTACTGAAACATTGAGGG
AACACAAATTTATGGGCTTCTGATGATGATTCTTTAGGCATCATGCCTATAGTTGCATCCCTNCG
AATGTAAGTACACTGTCCAAAGGTTTGCTTCTTNCCTGG

SEQ ID NO: 1694 ACAGTGGCATGATCTCGGCTCACTACAACCTCTGCCTCCCGGGTTTCGAGGGA
TTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTATAGGCTCCTGCCACCATGCCAGCTAATGTTT
TTTGATTTTTTAATAGAGACAGGGTTTCGCCATGTTGGCCAGGCTGGTCTTGAACCTTGACCTTAG

GTGATCCACCCACCTCTGTCTCCCAAAGTGCTGGGATTACAGGTGTGGGCCACTGCGCCTGGCCTA
TCTTGCACTTCTTCAGAGAATTCACATACTAAGGGGCAATTCGTGATCCTCAAATAAGAACTCCAA
GTA AACATCTTAGAGTTTTTTATTTCCAGACTGCATTTTAAATATGAACTATGAATATCGCATAA
CATAGCATGTTCTTTGTCTCTAAGAATTAGGGAAGAATTTTGAGGCTATTAGGACATTGTAGATCT
CTTTATAATCACTCTATGTTTCCCACGTACTGCTTCATCTCTGATTGG

SEQ ID NO: 1695 ACTCCAACCTCAAGTTTACAAGTTACACCTTTGCCACAGCCTTGGCTAAATCTT
GAACTAGTGCAGAATTCAGCTGTGGTAGAGTGCTGATCTTAGCATGCTTCGATGTGGCATACTTGT
TCTTGACAGTCATGTGCTTTGTAAGTCCTTGATTIACCATGACTACATTCTTAGCCAGGTGCTGCAT
AACTGGAAGAAGAGATTCTTCAGTATATGACAGGTAATGTTGTAGAGTTGGTGTCCATTACCATT
ATCCAGAATTTTCAGTGCTAAGCAAAAAGCTCCTGCTGCAATTTGAGAAGGAGGAAAAGTGCACCA
TGTCATAGTCCAACATAGTTAGTTCCATCAGGTATTTGGCCAAAAGTATGTTGCTCGACATCAACCT
CTCCANTCTTAGATGCTCTCCGAAGGAAGTGCANAGGTAGAGGCGCCAGACCAAAGTTAAAGCT
CTTATAATCTCATTTTCATCTGCTGATTGGTGCTTAGTATAAGTGTGTCAGT

SEQ ID NO: 1696 ACCGTCTAAAGGGGCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGA
AAAGAACCCTGCTAGTTACTAGTGGGAAAAGATACCATGGTGAAATGGTGGGACCTTGATACTCAGC
ACTGCTTTAAACAATGGTTGGCCACCGGACTGAGGTATGGGGGTGGTTCTGTTGT CANAAGAA
AAGCGACTCATCANTGGGGCCTCANACAGTGAAGTANGGTATGGGACATAGCTTATCTGCANGA
GATTGAANACCCGNANNAACCANACCCCAATNAAAATCATNGGATCTTCTCCTGNAATACAANAT
ACTCTTGAGGCANAGGATGGTGCCTTTGAGACGGATGAACCCCTGANGATCGAATCCTTTCTGCAT
AAAAGCTGGTCTTATTGCGGGANGGAA

SEQ ID NO: 1697 ACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATC
GAGTGCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGCCTGAATATGTA
TAGGCCAAAAGGAGCGCAGGAACAGTCGTGGTAAAATAATTAAACCCCTGCAATATCAATCAACGG
TGGCTTCTGGCACAGTGGCAAGAGTAGAGCCAAATATTAATGGTTTGGAACACACGTGTGATT
AAGCAGTCATCATTACAAAAATTTCAAGAGGAAATGGATACAGTTATGAAGGATCCATACAAAGT
TGTCATGAAGCAAAGCAAGTTACCAATGTCTCTTCTCCATGATCGAATCCGGCCTCATAACTTGAA
GGTGCACATTCTTGATACTGAAAGTTTGAAGTACATTTGGCCCTAAGTCACAGAGGAAACGACC
AACTTATTTGCAAGTGATATGCAGTCTCTTATCGAAAATGCTGAATGTCACTGAGACTATGCCN

SEQ ID NO: 1698 ACAAAGAAGCAGAAAGTGAATTTTCTTTTCCCAGTATGACGAAAAATTGGA
GTTCTGCCATTTGAGCAGCTTACTGGAAGATCCAGCCTTACTTGTCTTAAATTTGTCCAACAAGGT
GACTCATTGCCCGGCAACACTTTTACCCTCAGATGTTACTCATGATATTATAAAATATGAGGCCA
GTGCTCAGGTTTGCATCATAAGTGAGCTATCCCTGAAGGGTTTAAATTACTTATTTGGTGTCTTGAT
TATATTTGCAAACCTTCTTTATAAAAGGTGAAAAAGCACACAAAAAGAGAGGGTGTCTTCATATTA
AACCTTCACAACCTTCATGATTTTCATAGGATTATTTTGGAAATATAGCACTTGACTTTATGAAAGG
ATCTGGCTAGGTATATTAGGGGTAGTGCAATAACCTGAAGAAGCTGGCATTGTTACAGAAACAGA
TCAAGGGCTATAATTTATGCATTTTATAGCAGCAGTATCTATTAATCATGCCTTTTC

SEQ ID NO: 1699 ACGCGGGATCCACGGGCTGCACCGGCACCCTGGTGGCAGAGAAGCATGTCTT
CACAGCTGCCACTGCATACACGATGGA AAAACCTATGTGAAAGGAACCCAGAAGCTTCGAGTGG
GCTTCTAAAGCCCAAGTTTAAAGATGGTGGTGCAGGGGCCAACGACTCCACTTCAGCCATGCC
GAGCAGATGAAATTTAGTGGATCCGGGTGAAACGCACCCATGTGCCCAAGGGTTGGATCAAGGG
CAATGCCAATGACATCGGCATGGATTATGATTATGCCCTCCTGGAACCTCAAAAAGCCCCACAAGA
GAAAATTTATGAAGATTGGGGTGAGCCCTCCTGCTAAGCAGCTGCCAGGGGGCAGAATTCACCTC
TCTGNTATGACAATGACCGACCAAGGCAATTTGGTGTATCGTTCTGTGACGTCAAAGACGAGACCTA
TGACTTGCTCTACCAGCAATGCGATGCCACCAGGGGCCAGCGGNTGGGTCTATGTGAG

SEQ ID NO: 1700 ACATGAAGTATATGCTGTGGATGTTCTCGTCAGCTCAGGAGAGGGCAAGGCC
AAGGATGCAGGACAGAGAACCCTATTACAAACGAGACCCCTCTAAACAGTATGGACTGAAAAT
GAAAACCTTCAGTGCCCTTCTTCAGTGAGGTGGAAGGCGTTTGTATGCCATGCCGTTTACTTTAAG
AGCATTGGAAGATGAGAAGAAGGCTCGGATGGGTGTGGTGGAGTGCGCCAAACATGAAGTGTGCTG
AACCATTAAATGTTCTCTATGAGAAGGAGGGTGAATTTGTTGCCAGTTTAAATTTACAGTTCTGC
TCATGCCCAATGGCCCCATGCGGATAACCAAGTGGTCCCTTCGAGCCTGACCTCTACAAGTCTGAGA
TGGAGGTCCAGGATGCAGAGCTAAAGGCCCTCCTCCAGAGTCTGCANGCGAAAAACCCAGAAAA
AGATAAAAAGANTGCTCANANTGANAGAATGCCACAGTGGGGANCAATTA

SEQ ID NO: 1701 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTTTTTTTTTTTTTTTTTTTTCCAGCC
CATGGCAGTTTTATNGGGGGTNCCTCCCTTCCCATATTTACCTGGAGTTGGNAANGGGGAAAAAA
AAAAGGGNGGGACAANAAGNGAACTANAATATAAATATCCGTAAACAGCATNTGACCATTAG

TNTTTAACAGGGAGGAGGAACCACTGGNGTNTNTTANTTTAGGACNCAGGANCATTATAGGGGTA
GGGCCAGCTGGNGTTAATGGCATGCAGGCATNTGTNATGCCAACCATGAGGGCTGGAANAACCAA
AACCAAAGAAAAATATGACCGCATNTATTCTAAAGCTACTGGGGNGGTTTCTCATGCTTNANAGT
CTCGNAAGTCTCCNGGTCCNGGGGCTNAGGCCCGNGAAACACCATCTNATNTNTANAGTGGNTAT
AGTCCCTCNCCTTGGAT

SEQ ID NO: 1702 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTANANTTATTTTTATTGACAAGG
TTTATAANAACAAATATTTAAAATCGAAGGCCAATTATTAGGNCTCATTTAGTTGCTTATTTTGTC
ACTTGTATTTACCTTTCCCTAGNGTCTGAGTAACNTCAANAAACAAACCTGTGAAAATACCTGTT
AACATTCAACANATATNTTATATATTTCTGTCTATGATGCAANATATTTTTCAACACTTAATTGG
TGCAACAAATGTGTCAATTGNGTCATAAACAGCNTGTTTTAAAATTTCANATTNAATAAACNGATT
ANACAGAANTTTGAANGACAAANTTAAGTCTCATTCAGGAGNGGCCATTATGTTGATCATCTANA
ATNACACTGATTAAACCAAACCTCTGAAAGCCANAGCCCCAACTCCAGAGAACTTAAATCTTTAT
GAAAAAGTAATTATTTTGANACCACTTTGTAGATCATCACNA

SEQ ID NO: 1703 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATCTGAAGTCTTGTGTTTTACTAATG
GAAAAAAAATACAGANAGGTTTGTCTCATGGCTGCCACCGCAGCCTGGCACTAAAACAGC
CCAGCGCTCACTTCTGCTTGGAAAAATATTCTTTGCTCTTTTGGACATCAGGCTTGATGGTATCACT
GCCAGGTTTCCAGCCAGNTGGGCACACTTCCCCATGTTTGTCACTGAACTGGAAGGCCTGAACTAG
TCTCAAAGTCTNATCCACAGAGCGGCCAACAGGGAGGTCATTTACAGTGATCTGCCGAAGAATAC
CCTTATCATCAATGATAAAAAGGCCCTGAAACGAGATGCCTTCATCAGCCTTTAAGACCCATAAT
CCTGACAATGGTCCGCTTCGGGTCTGATCCAAAGGAATGTTTCATGGGTCCCAGCCTCCTGTTCTT
AGGTGTATTGCCCATGCTAGATGACANAAGTGAGATCCAGAGGCCA

SEQ ID NO: 1704 ACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATT
CAACTCGGAACTATAAGTAATTCTCAAGAAAGCCCTCATTTTATAACCTGGCAAAATCTTGTTA
ATGTCATTGCTAAAAAATAAATAAAAGCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTA
CCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAAGTAATTGCCTACAATAAAAAGAAA
TTTTGCCTGCATTTTTCAGAATCATCTTTTGAAGCTTCTGTTGATGTTAACTGAGCTACTAGAGATA
TTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTAGAAAGCTTTTCTTTT
TTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAAATTCATTGAGCAGTTAGCTCATTT
GAGATAAAGCANATGCCAACACTACTCTGATATCCCCATCATACTGGTAAAGCG

SEQ ID NO: 1705 ACTTTTATCAAAATCCATCATAAAAGGGAAAGAAGACTACAAAGTTTTGCCT
AAATATAACAAGTAGAGCTAGATTTGTTGTGGGGGAAGGGGCTCTCAGAGCTTATCTGCCGCTCTC
TCTCCCCACCCCCACCGACACTGACCACTGGAATCTTCAGGTTCTTGAGGAGTTCCAAGGCTGAG
GTCAGAACGGGCATGGGAGGCAGCAGACACAGCACTGCCTGCTCCCCCTCCAATGTTGCTGCTTG
CTCAATGAGCCTCCAACCCAACTGCTCTAGAGGAGAGTGGATGGGCTGAAGGAGAAGCCAGGGA
AGTTAGAGCAAAACACATTATCATAGAACTGTACCTCGGCGCGACCACGCTAAGG

SEQ ID NO: 1706 ACGCGGGCCAGTTGCCAGAGTGGAACCTCGCTTGATAATGCACCTTTTATTG
GCTGCCTTCTCTCTATTGTCCCCCTTCTCCATTCTCTATCAGTGTCTTCTGGAATCAAATTCAAATT
ACCATCTGCACTCAAATTTCTGAGTTGGCTTCTGGAAACTGGAACTAAGAACAGAAATCCAGTG
CATAGACCAGAAGCGGTGGCTCACACCTATAATCCCAGCACTTGGGAGGCTGAGGTGGGCAGAT
CACCTGAGGTCAGGAGTTACAGACCAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAGAAAT
ACAAAAATTAGCCGGCATGGCGGCAGTGCCTGTAATCCACACTTCGGGAGGCTGANGCGGGCAG
ATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGACCAACATGGTGAAACCCCTCTCTACTAGAAA
TACAAAAATTACCGGTGTGGTGGCAGGTGCCTGTATCCCACTACTCANGAGGTGAGGAA

SEQ ID NO: 1707 ACAAATTTTCGATTGTTAGGAAACCAAATGTTCTGAACATTATTTTCATTAGAA
AAGGGAAGGTAAATTTTATAGTTGTTTGAGGTGTTGTAATACATCTACTGATAGGCCAGCTGTTTA
ACTAACTGGCTGTCTGTTCCAAAATCCATGTGGGGCTTGGGTTTTCTGAATGTGCATGCTCCTGT
GTTCTACAACATTCTACATATGAACAATCTATCCCACTATGGCTCTTGCTACAAGTTTTTGTAAAC
TCAGCATTATTTTCACAGAGTCTTTTCATCTTTAGCTTCATCAATCTTTTTCTCAGCTGGAACATACAT
GACAAAGGTCCATATCCTCAATGGAGTCCAATAAATCTACAACATGGGACGGTGGAGTGATTGAT
TTCAGATGTTTGAGCACATACTCTTCACACTGCCAACTGCTCCAGAAGATTGTTATTTTATTGATCA
AAGTTGAATTATTATTATGAANGTGCCCAAGCAAGCCTCATGTTCTCGGA

SEQ ID NO: 1708 ACAAATATTTAAGAGTGTGATTGGGAGTAAGGGAATGTCAACTGCCAATAA
AGTGGAAGATGAAAGAATAGGACTTTACACAGAGCATATTTAGTTATGGGTCTCTGTCTCCTCCCC
ACACAGAAAACTCCCAGACATTCATGACTTCATCCACCCTGCCTGGCAGATAGGCCATATTTCTT
GACCCCTGGCTCTTCACTCAAAGGTTTATCTTTCCACCACACTAGCAAAGACCCCTCAGGACAC

ACAACCTCATACTGCAGCTAAGCATCTACCCCGAGGGACAAGGCAAGCACACACTAGGGCAGCTGG
GCCATCCTGCCCTAATCCCTCCAGCGGTGTCCACACTGAGCATTGCAGCACTTGTAGAAGGTGGTC
ATCGGCTCATCTGCAGAGCGGGTCTGAAGCTGCATGAAGTAAGCACGAGGATGTGCGATTTGGGA
CACGACTCTGCATAGAGCAACATTCTCCAGGCAGTGTCAAGCACATATCCATTCTT

SEQ ID NO: 1709 ACAAATGTTTTTTTATTCAAAAATACAAAATAAATTATCTGTAGGCATGGACA
ATGACAGCAGTAAACCATATATATTTTGTCAACTGAAACCAGTAACTGATGGTTATAGTGATTTT
CAGCCAGCCTTTTCTTCATTTTCCCCAACTGACTTCTCTGAAGTTATTGGTGAGGAACACTGCCTT
GGGCTTCCTGTGCACAGTTCATTAATAAAGGTAAAGCACTAGTCTAGGAGTTAGAACATGCCACCTC
CCATACCACCTCCCATTTCCACCCATTGCACCCATTCCAGGGTCTTCTCTTCTTTAGGAATTTCTGT
GACTACAACCTTCTGCTGTANTTAACAGAGAGGACACCAGCAGCATCCAATAAAGCAGTTCTCAC
AACCTTTGTGGGTCAATGATTCTTTTCCCCATATTACAAAATCTCCAGCCTAGCATCATAACCAA
CTTCTGAGGAACCTTGCTAATTTCTCACTTCAAAGATCTTNACACCTGCTTCTTA

SEQ ID NO: 1710 ACACGGGGGGAAAGACAATCATTGAATACAAAACAAATAAGCCATCACGCC
TGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGTCTGACCAGGAATCTTTGTGGACATTGG
CCCAGTCTGTTTCAAATAAATGAACCTCAATCTAAATTAAAAAGAAAGAAATTTGAAAAAACTTT
CTCTTTGCCATTTCTTCTTCTTCTTTTAACTGAAAGCTGAATCCTTCCATTTCTTNTGCCATCTAC
TTGCTTAAATTTGTGGGCAAAAGAGAAAAAGAAAGGATTGATCAGAGCATTGTGCAATACAGTTTCA
TTAACTCCTTCCCCCGCTCCCCCAAAATTTGAATTTTTTTTCAACACTCTTACACCTGTTATGGA
AAATGTCAACCTTTGTAAAGAAAACCAAAATAAAAAATTGAAAAATAAAACCTAAACATTTGTAAN
AAAAATACANTTTATGATNAGATNTTTNATAAGTNTNANGCCTCANAAATAAAAAAAA

SEQ ID NO: 1711 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTN
AATCTTTNAATCTTTTATTATAANGCCATGANCCANGANGGATTTTAAATCTTGNTNAAAGCANCC
NCATCCATGGACNGCACNTAGNCCTNAAAAGCAGNGATCTGCTCCTCCAGCATATCTGTTCCAAC
TTTATNATNTTCAACNACNCACTGNTTTGAAGTTNTTAATTCGGTATCCCACTGNAACTANTTTT
AGAAACCCCAACTAACCCTGTTTGAATGNTTNTGACCCACTCCTNTAATTTCNCCATATCTGNT
CATCATCCANGGNTTACATTTANTANATGGAAGACTTGGAACAAGGGCAGGTTTTTGGNTTTC
TTTGATTATATTGNGCAAAAAGTTTTCCCTTACCTTTTTGTTTTACTTTCTCCCATNATNAAACCA
AAGAGGCAANGCA

SEQ ID NO: 1712 ACCAGCGAAGCACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGGCAGACCCC
ACTGTTGAAAGTGAGGAGGCGTTTAAAGAATAGAATGGAGGTTAAAGTGAAGATTCCTGAAGAATT
AAAACCATGGCTTGTTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTCAACTCCCTGC
CAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATTGCANGAAATCNCAGGGAAATGTTG
ATAATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAAGAATATTTCAATGTGATGTTG
GCACTCAGCTGCTCTACNNTTTGAGAGGCCCCAGTATGCTNAATCCTCTTGCTCACCTGATGCTC
CANTGCCCATGTTTATGGAGCACCAACCTACTGAATNTTTGTAAGAATTGGACATTGTGGCCTNT
CGCCCTTTGATGAGAAAGCTTGATTATTGTGGCTTTTCGNTGATTTCTAAAT

SEQ ID NO: 1713 ACGCGGGGGCTCACTCTGCGCTTCACCATGGCTTTTCATTGCCAAGTCTTCTA
TGACCTCAGTGCCATCAGCCTGGATGGGGAGAAGGTAGATTTCAATACGTTCCGGGGCAGGGCCG
TGCTGATTGAGAATGTGGCTTCGCTCTGAGGCACAACCACCCGGGACTTCACCCAGCTCAACGAG
CTGCAATGCCGCTTTCCANGCGCCTGGTGGCCTTGGCTTCCCTTGCAACCAATTTGGACATCAGG
GAGAACTGTGAGAATGAGGAGATCCTGAACAGTCTCAAGTATGTCCGTCCTGGGGGTGGATCCAG
CCCACCTTCACCTTGTCAAAAATGTGAGGNGAATGGGCAGAACGAGCATCCTGCTTCGCTACCT
GAATGACAAGCTCCCCTACCCTTATGATGACCCATTTCCCTCATGACCGATCCCAACTCATNATTT
GGACCCTGGCCCGTCANATGTGGCCTGAACCTTGAGAAGTCCTATAGGGCCGAGGGAA

SEQ ID NO: 1714 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAATGATTAAAGATGTCTTTAT
AAAGTTTTTTTCAAGACTTCATTCTAAATACACAGAATAAAAAATGGNGTCAGCTCACTTGTAANA
CACCAACCANATTTTCTTATACTGTCTCAAAATTTAAAGATCAATTTCCCANAGGGNGTGCAAT
GCATCATAAAATGGCCCTTTTGTAGGATGGGANAGGAAGGGTTGGGCAGGATGGAATATTAAT
TGTAACATGATAAACATGCAAGACTGTTATCCAATCTAGATAATTTATATACATTTTGATGACTTA
GGAAAAACAAAGCAATCATTTGTGACAAGCCTAAAAAGCTTGACATATTTAACATACCTTAGGAAC
TTTTGTGCGGTGGGAATTCTCTAATTGTATCATGTGGCCTTTTGAAGTAACAAACAGAAGGCCAG
CTGTTGAAGTTTGCTGTGAACATCACATTCCCCCTAANAAACCAAGNGGATTGCTCGAG

SEQ ID NO: 1715 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGANCCAAGGAAGTTTATTT
ACTCTACTGGGNGACAGGAGGGCANAGNGCTCCAAAGGANACCCANATNCNTCAACCAAGGACT
TCCCTGAAATTTGGCTTTGCTCTCCAGGCCTGCACATGCTGCGTGATNAAATGAGGCCTGCCTAA

ACATCTGTGAGGGCCTCNAGGGGCTGNTGCCTCAACTTTCTCCCTACTAAGTCCACCCGCCAGGGAC
ACAGCCAGGGCACTGCTCTGTGCTGACTTCCANTGCAGCCAAGGGTCAAAATGAACATCTGCGGA
GGCCAGGACTCCTTGGCNTCGGACACAGTCAGGGGAAAAGCCCCCTGACTCTGCAGGACAGAGG
GTCTAGGGCNTTNGCAGGANAACACTGGTGTCCAAGGGAANCACCATGATTCTGGAGTGGCTCAT
GCATGGCTGGAGTTANNAAACTGGAAGTTCCTCCCACTTATTANTCA

SEQ ID NO: 1716 ACTCTGGTAAGCTTGTGTTGTGTTGCCAAGTGAAGCTCCCTCAGATGAGGCGTGT
GGCCAGAGAGCCATTGTCAACAGCAGAGATGCTGTTGAACTCAATCCCACTTAGCCAAATTAT
TCAGTCCTTTTCAGGCTAGCTGCATCAACTCTGCTGATTTTGTGTCATCAAGATGTAATTCCGTAAG
GGAAGGAGGAAGACCTTGAGGAATGCTGGTGATATTGGTATCAGCAATGCGGATGTAGGAGAGCT
TCTTCATTCCCTGGAAAGCCCCATTTTCAATTCCTGAGCTCTTCAGCGGATTGGTGCCAGTTCTAT
GACAAATCATCTGGTTTCAGCCATTGAAAGTAACTTTTCGCACTTGGTGATCTCATTCTCATGGCAC
GCAGCTCCTGAAGAGTTTGGCATTTTTCTGCAATTCCTTCANTGATTCTTGGACAGATAAAGTCGT
TCCAACCTCCCAAAGGTGTAATGCTCCAGGACTAACTTTGTATTTATTGTGACAAGAA

SEQ ID NO: 1717 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
AGGTTGAAGTGTGGTTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGA
TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAAACCTTGCTGCTGATGAAGATGATGAC
GATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAAGCTGA
AGAAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAAGTCAAAT
CAGAAATGGAAAAGACTCAAAACCATCATCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGA
AACAGGAAAAACTCCTAAAACCCAAAAGGNCTATTCTGANAAGACTTAAAGCAAAATGCAGCAA
GTTAGAAAA

SEQ ID NO: 1718 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGATGCTTTTCATTATCACANAACAC
ACCACCTGTAATGNGTGCAAAAAGGAAATGAGGGGTGGAAGGANAGGAAGTCTAATTGGGAAAG
GCTGGATGGTCACTTCATTTCTTCTTCTTCTTCTTATCCTTTTCATTATGCGCCAGNATCATCATGAG
TTTTCTGAANACAGTAATGAAATCTAANAANAGATCAATGCAGNGCCAGATATAATCTTGATCTC
CATGTTTCGGCCTTTTCAATAATGAGTTGAGTATCAAAAAGGACGAAGCCACATGACCACAGTC
CCATATACAGGTTTGCTGGAAAACCAAATGGATCCAAAGAAAACATTCCCCANGGAAGACAAA
AGCACAAGCTCAGGGCTGCATCAAGATCCTCCCAAAGAGGTAGCTCGGCCCTGCATANAGTGCC
TGAGGGTGAAGCANGTAAAGATCATTGCGGCCCTGAAACAGTGAANGATGCTGGGGTTG

SEQ ID NO: 1719 ACGTGAACCACAAAGTGTATACCAGGCATATGACATGGATCCCCCTGGGGAA
CCAGGCTGATCTCTTTCCAGAGGGCACTATCCGACCAGTGCATGATGATATCCTCATCGCTCAGCT
GCGGCCTGNCCAAGAAATTGACCTGCTCATGCACTGTGTCAAGGGCATTGGCAAAGATCCTGCCA
AGTTTTACCAAGTGGCAACAGCCAGTTCAGGCTCCTGCCANACACCACCCTGCTTGAGCCCGTGGA
AGGGGAGGCAGCTGAGGAGTTGAGCAGGGTGCTTCTCACCTGGTGTTATTGAGGTGCAGGAAGTC
CAAGGTAAAAAGGTGCCAGAGTTGCCAACCCCCGCTGGATACCTTCAGCAGAGAAATCTTCCGG
AATGAGAACTAAAGAAGGTGTGAGGCTTGCCGGNTCGAGATCATTATATCTTCTCTGTNAGTAAC
GGGGTGTGCNCCNNATGTCTGGTAGTGATCCATCAAACNCCT

SEQ ID NO: 1720 ACGCGGGGGGAGGGGGAAAAACGAAAATAAACGAAGCTTGCAGCACACTCT
GCGTTCATCACTAGGTACCTTGCTCTCCGACCTGCTTGCTCATAGCTCTGTGTATCAGCTATGATA
GGTGCCCATCGTCTGTCTAGAAATCACGTAGACCCCTGTGCACAAAGATTACAATTCCTTAACTCCA
TAGATAACAACCTTGAACATTATGAAACGTTTTCCCTTGGAGATATTCTTTCAGGTCCCGCATACCA
GCATAATTACTGACACCAGTTGTTCTGAAGGAGCCACAGAAGCAAGACTCAATGGGGACTGCAG
TTTCCATATCCTGAGGATTTCAACCCCTTACCCTGCCAGTCGATGACCCCAATTTTCCAGCCCTC
ACCCTTCACAATGCCCTTTAAAATCCCAACCCGACTCCTTGGGGAAGATGGATTGTGTTGGCTCCTG
CGTTCTCTAGCACCTGCTCTTAACCTTTTCTGTGAAACCTGTTCCCTCAGTG

SEQ ID NO: 1721 ACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTGTCTTCCATAATGTAT
AAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATATGTTACA
CTAAGGGTGTAAAGTAATTATCGGGAACAGTGTTCCTATAATTTCTTCATGCAATGACATCTTCA
AAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTTAGTTTTAG
TTGCAGAAACATTTTGTGGCATTAAAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTAC
TACAAAATTTGAAATTTAGCTTGGGTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGA
GATAGTAGCATACATTTATAATGTTGCTATTGCAAGTCATTTACTTATCACATTATTTGATGTACCT
CTATAAACTTAGTGCGGCAAGTTTAATCCAGATTGCCTTTGCTTAAAGCAG

SEQ ID NO: 1722 ACGCGGGGAGGTTCTGGGAAGATGGCGAAGGTCTCAGAGCTTTACGATGTCA
CTTGGAAGAAATGAGAGATAAAATGAGAAAATGGAGAGAAGAAAACCTCAAGAAATAGTGAGCA
AATTGTGGAAGTTGGAGAAGAATTAATTAATGAATATGCTTCTAAGCTGGGAGATGATATTTGGA
TCATATATGAACAGGTGATGATTGCAGCACTAGACTATGGTCGGGATGACTTGGCATTGTTTGTCT
TCAAGAGCTGAGAANACAGTTCCTGGCANTCACAGAGTCANGCNATTAACAGGCATGANATTTG
AAGCCATGNAAAGATATGATGATGCTATACAGCTATATGATANGATTTTACAAGAAGATCCACTA
ACACTGGTGAACCCCATCTCTCTAAAAAGCAATAATTACTGGGCGTGGTGCATGTCCTGAATCCCC
CTNTCA

SEQ ID NO: 1723 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTCAAGTTTAATACAACTAC
AAAAGATTAATGGGTTGCTCTACTAATACATNATACAAACCAGTAGCCTGCCCAACGCGCAACT
CAGGCCATTCTACCAAAGGAANAAAGGCTGGTCTCTCCACCCCCTGTAGGAAAGGCCTGCCTTG
TAAGACACCACAATTCGGCTGAATCTGAAGTCTTGGGTTTACTAATGGAAAAAATAACNGAN
NAGGTTTGTCTCANGGCTGCCACCGCANCGTCACTAAAACAGCCCAGCGCTCACTTTTGCTT
GGAGAAANATTTCTTTGCTCTTTNGGACATNAGGCTTGTGGTTCAGTGCAGGTTTNCAGCCAGCTGG
GCACACTTCCCATGTTGGNAGTGACTGAANCCTGACTANTCTCAAAGCTATCCACAGACGGCAAC
ANGNAGGCATTANAGTGATTNGCG

SEQ ID NO: 1724 ACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA
TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCTGGG
TGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTCACGCTTTTCTGGGCATATA
AGATCTATTATGTCTATGGCTTCATGATGCTGGTGTCTGGTTATCCTGTGCATTGNGACTGTCTGTGT
GACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTCT
CTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAG
ATGTATGGTTATTCAACATCATTTTACTTTGGATATATGGCGGATTACACACCTTGGGATATGGTG
GAGCGATTGTTNATGGGACAAGTCCTTTGCCGAAATCTATACNG

SEQ ID NO: 1725 ACACATGATGAAATGAAGCAGAAGCTGGGAGTCGGCCTTTCCTCTAGTAACC
ACCACATGGCTCAGCATCTGTGCCAAACATAGGCGCTCCTAGTCTGGTCAGTGCCAAGAGGCTAC
CAGAACATGGGGCAGGTGGCTGGTGTGGTGTCCCAGCCTAAGAGCCACCTGCTGCAGTTACCAT
GGCATGCTGAGTTGATGCACCAGGTGGCAGCAGCCATCCGTTATTATTCCAATGGAGACCTAGCC
CAGGCCAAGGTTAAGTTAGTTAATAGCATTTGGGATATAGTCACTGTAATGGTGCTATTAACAAAC
AGTCAACACCATTGTATTTTTTAACTTCGTGTTCTGTATCTCCTCACCATGTATCTTAAATATATTTT
GCATCATAATCTTTCTTTATGGTGGGGGCAGACTTTGACTACTGCANTGCAACACTTGCCTTTAATT
TCCTCCACTGCTAAATTAGAGCAAATCATTGGAATACNGTGTTTTGTCTGAG

SEQ ID NO: 1726 ACTTTTAAATCATGTTCCCCCTAAACATGGCTGTAAACCCACTGCATGCAGA
AACTTGATGTCACTGCCTGACATTCCTTCCAGAGAGGACCTATCCCAAATGTGGAATTGACTGC
CTATGCCAAGTCCCTGGAAAAGGAGCTTCAGTATTGTGGGGCTCATAAAACATGAATCAAGCAAT
CCAGCCTCATGGGAAGTCCCTGGCACANGTTTTTGTAAAGCCCTTGACAGCTGGAAGAAATGGCA
TCATTATAAGCTATGAGTTGAAATGTTCTGTCAAATGTGTCTCACATCTACACGTGGNTTGGAGGC
TTTTATGGGGCCCTGTCCAGGTAGAAAAANAATGGTATGTAGAGCTTAGATGTCCCTATTGTGACA
GACCTGGTGTGTNGTATAAT

SEQ ID NO: 1727 ACACCTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTTGTA
ACATTAAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACACTTCT
TCTGGTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGGAGATTTTTTTTCTTTACAATTGAG
TCTTCAGCAACTTGAGAGCTTTCTTTCATGTTGTCAAGCACAGAGCTGTATCTGCAAGGTTTCGTAAG
CATAGAGACGGTTTGAATATCTTCCAGTGATATCGGCTCTAACTGTCAGAGATGGTCAACAACATA
ATCCTGGGGACATCTGCCCATCAGGAGAAGGNGTTNNCAGTTGTTTATAACCAGATTGAGGAGGA
CAACTGCTCTGCCATTTCTGGATTTCTTATTTCAAAACACTTTCTTTAAAGCTTGCTGNGTGGCNC
TCTCCAANGATGAAAATCATCAAGGGTTGTTGTTGCTTG

SEQ ID NO: 1728 ACCTATTTTTTAATTGAGACAGGCCACTTTATTAATAAATAGGTCCAAATGTAAC
ACACGATAACATTCATTTTAAATAAAAACTACAAACATGACTTGACTTCTCCAAATATACATTCTC
TCAGGTAGTCCATCCGAGCATCCTTTGTTGACAGTACCATAGAGTCCATTCAAACCTGGGGAATC
TGATTACAGATAACCCAGATTTCCAAATGTCGTTTTTCATAGCAGAATTTTCTTTTATTGTGANGG
ANTATTNNNTANAAAGGGCTTTTGAATCCAAATTTCCCAAANAATCCTTCANCCCCNGTNGCAAGC
NTGNTTCAACTNNTTCGATATTNNTTCCAAGGNAATTCTGGTANTTGCCAATGNCTNNTTATTGNN
TCCTCCGAAAAGNTTTTTNTTTTTTCCANNANCCNAAAATTNNCTTNGGGGATAAGNGTAAACC
NNGNTTNCNATTGNTTCTCCTATCCTCGGC

SEQ ID NO: 1729 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
GTATCTTACAGGAGTTTTCTAATACATCCNG

SEQ ID NO: 1730 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
GTATCTTACAGGAGTATTCTTATCCATCCCCTGGAAAAGGTTGCTTAACAACCTGCAGTCTCAGAGA
CGGGCGTTACCTTCGCNAAATTTGACCAAGCTTTTACATAGGCTTTCAATCAAAGCTTCTTGCTTG
TCTGGTTCCAGGATCAAGAGTAGGGGATACCACACTGTTTCATCACACTTTCAACATCTTTATCATC
CTCCTTCAAACACACATAACAGGCTTTAATAATTNGAGCTAAATCAACATGAAGTCACCTTNCAG
TCTTTTCTGAAATCTCAGTTCCGTTAGATTTCAAANNANNACGAACTANCAANCTGNCTTTTATT
GATGCCANNANGCCGGACCCTTATGGTGGNAGCCGGCCNNGGTANNNTCATTGTAGCCCGGGTN
CTTGCCCGA

SEQ ID NO: 1731 ACATCATAATCGGCGACACAGGTGTTGGTAAATCATGCTTATTGCTACAGTTT
ACAGACAAGAGGTTTCAGCCAGTGCATGACCTTACTATTGGTGTAGAGTTCCGTGCTCGAATGATA
ACTATTGATGGGAAACAGATAAAAACCTTCAGATATGGGATACGGCAGGGCAAGAATCCTTTTCGTTT
CATCACAAGGTCGCATTACAGAGGTGCAGCAGGAGCTTTACTAGTTTACGATATTACACGGAGAG
ATACATTCAACCACTTGACAACCTGTTAGAAAATGCCCGCAGCATTTCCAATTCCAACATGGTCATT
ATGCTTATTGNAATAAAAGTGATTTAGAATCTAGAAGAGAAGTAAAAAAGAAGAAGNGAAGC
TTTTGCACGAAACATGGCTCTTTTCATGGAACNNTNGTTANACTGNITCCATGTANAANAGCTTN
TTTATCNNCAAAGAATTTTGA AAAAATTCANAAGNGTTTTGNTTATATGAGCAAANGCTTAAAT
GCCTANATGTGTTCCA

SEQ ID NO: 1732 ACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAAGAAGGAGG
AACAGTTGAAGCTTCTTAAGGAGAAATATGGCATCAACACAGATCCACCAAATAAATGTTTTCT
ACATTTTCATTTGGACTAAATCCCACGAATGACAACCTACCACCTTTTTTTCTTTTAAATTAATACT
AAATATTGTGATTTCTTATTTGAGGTTCAAATGACCTGCTTGAACTTTGATACATATTGGAATA
CATTATGTTAATAAACTTGTAGCTTTTGTAAAAAATAAAAAAAGTACTCCCNAAAN
CCTATTNCCAAACAGGCAGAAATCTTTCTATATTAAATTGCACNTACTAAAAATTTTTTCACGGC
CTNGAAATTGATATAAGATCATTGCTCATCATTAGGATAAAATACTGAATTTTCTGGAAATAATN
TNTTCAGAGAAAAATTTCTTTACAANTCTAGTTCTTGCCAGAAAAAGGTCTTCCNAAAAACATCA
TG

SEQ ID NO: 1733 ACATCCCAAGAGATGTAGATGAAACAGGTATTACTGTAGCCAGTCTTGAAAG
ATTCAGCACATATACTTCAGATAAAGATGAAAACAAATTAAGTGAAGCTTCTGGAGGTAGGGCTG
AAAATGGTGAAGAAGTGACTTGGAAGAGGACAACGAGAGGGAGGGAACGGAAAATGGAGCCA
TTGATGCTGTTCTGTGATGAAAATCTTTTCACTGGAGAGGATTTGGATGAACTAGAAGAAGAAT
TAAATACACTTGATTTAGAAGAATGACACCAAACACATCGCTGAAAAAATTAAGTCAGCTCAGCA
CGAGTTGAAATTGCTACATTAATTTCTTTCCCTAGAATCAACAGGATGTTTATTCCTATGCTGATT
CTGGAGGAGTACCTCTGCAAAAAGGCATCTTGCCCTCATCTTTCTTCTGCTTTGGCTCATCTATA
GTAAGTCAGAGTAGTTTCATGATAATTGAAATTATGGCATGCANAAATGATGATGTTGACTGCCCC
AAGAAAAGTGATCTGCCTTCATCTTTGGTTTATTGGGGCTGGCTTANCAAACACAACTTTTTTAA
NCCTCTTTGCAAGTTTA

SEQ ID NO: 1734 ACGCGGGAGTTTTCAACTGACCTCTGGACGCAGAACTTCAGCCATGAAGGT
AACAGGCATCTTTCTTCTCAGNGCCTTGCCCTGTTGAGTCTATCTGGTAACACTGGAGCTGACTC
CCTGGGAAGAGAGGCCAAATGTTACAATGAACTTAATGGATGCACCAAGATATATGACCCTGTCT
GTGGGACTGATGGAATACTTATCCCAATGAATGCGTGTTATGTTTTGANAATCNGAAACGCCAG
ACTTTTTCTCATTNAAAAATTGGGCCTNGCTGNGAACCAAGTTTGAAATTCCATCTAGGTAACC
GNNAGGCANAACCTGNCTTATTGTGAATAAATAG

SEQ ID NO: 1735 ACCTCAAATCTGCTCTGGAGTCGATTATGCCACCTGTGTGTCAGGATGCACCT
GAAAGCCCTCGGCTCGNCTTAGACCATCTTCTACATTACCTGGAAGGGAGCTGCCATCTGTCC
CTCTGCANAGGGATACCTTCCAATAGTAAATTATCTGGTTCCTCACTGAAACAAGTTATTTTTGCTT
CATATAGTCAAGAGTCAGACTGACATGATAAAATATCATGTTCTTAATCTGTTGTCTCAGATAAGT
GACCAAGACGGGACNTTACATTTTAAAGTCTACATNCTAATCTTAAANGAATAAAGCACTGAATT
GGGACTAACATTCTGATANGTTGCCCTTAAAGAGTATTCANAGNCATCAAAAGGAGCCACACTT
CANAGTGAANGATTCTACACAGGGAATTGACAGTTTGTGCAGAATGNTTNNCTCACGTTGCTNA
TANACTGCCAAATTCAAANTTAAGCTGATTGACACAGACCTNCCTTTNCTGACCAATGTTGACACA
TNNTNANATGCAGGGTTCCACATATGGAATGCAGACAACCNNTTGT

SEQ ID NO: 1736 ACGCGGGAACCCAAAACCTATAAGAACTAATAATAATCCACCACTCTTTGCT
GACTCTCTTTTTGGACTCAGCCCACCTGCACCCAGGTGAAATAAACAGCCATGTTGCTCACACAAA

GCCTGTTTGGTGGTCTCTTCACACGGACGCGCATGAAATTTGGAGACATGACTCGGATCGGGGGA
 CCTCCCTTGGGAGATCAATACCCTGTCTCTTGTCTTTGCTCCATGAGAAAGATCCACCAATGAC
 CTCAGGTCCTCANAACAACCAGCCTGAGAAACATCTCACCAATTTCAAATCCGGAAGCAGNCTC
 TTTTACTTTATTTTCAACCTNCCTCACTATCCCTCAACCTCTTNTCTTTCAATCTTGCCCCACATT
 TCTATCTCTCCCTTCTTTAATTCAATCCTTTCAATTCTTTTGGTAGAGACAAAGGAACACGTTTATC
 CGTGCCCCAAACTCTTNCCCCGTACGGATGGGAAGCACCTTCCTTGGTNTTANCATTGAGGGAC
 CCTTCTGATATCCNCGTNAAGNGTAGACNTGCNGGNACCTGCTTGNCTTTCCTTAGNCAGNCCA
 TTTTGGGAGGCANACTGCCGGCGGC

SEQ ID NO: 1737 ACAGTTGATCCCACTTTGGAATAAATGCCCAGAAGGTAATAAGCATTATCAG
 TGAGTGAGAGCTCTAGGCACAAAATAAGTTCTCATTGAGAAAGTGGACAGAGATATGAAGCAGTG
 AAACATATAGCTTTAAAAACTGGAAATCATTCATGACATTTGTTTCAAAGTAAACATTATCTGCA
 TTTCAAGAACTGTAATTTTCAAAGTAGAATCAGGCCTGATTAAGTAATATTTATGACTTACAGAT
 AAAATTACAAAAATAAAAAATGAAAACTCTTCTGCCTTGAAAGANATAGAAAACTATATTTTTTCC
 CTGNAATGNCACAGAGATTTCATCAGTATTTTCATCCTTATGTCGCTTAAAAATGTTATTTTAATTG
 CTTTCCCTGTCTGCACTTTAAACATAGCAAACCGTGTTAATATGGCATCTCTGTGGTGAAAGGATGN
 TTATTTACTGATGATGANAGAACTCAATTACCTCCATGGACTATCTCCCGTGGGAAAAAAGTAANA
 CCNGATTTCCAAAACAAGAACAACAACAAAAACCCCAACTCATGTTAAANTCTTCTATT

SEQ ID NO: 1738 ACGCGGGGCTCTCGAGTCACTCCGGCGCAGNGTTGGGACTGTCTGGGTATCG
 GAAAGCAANCCTACGTTGCTCACTATTACGTATAATCCTTTTCTTTTCAAAGATGCCTGAGGAAGTG
 CACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCCCAACTCATGTCCCT
 CATCATCNATACCTTCTATTCCAACAAGGAGATTTTCTTNAGGAGTTAATCTCTAATGCTTCTGAT
 GCCTTGACAAGATNCGCNTTGACAGCCTGACAAACCTTCGAAAGTTGACAGTGGGNTAAGAGCTG
 AAANTTACATATCCCCAACCNNTAGGACGNACCTGCCNGGCGGACGTCGAAAGGC

SEQ ID NO: 1739 ACCTACAGACACTTTTACAGAGTTAATACTAAAATTACAAATTGATGACACTT
 TCGAGGCAAAGCAGGGTAAGTGTCTTCACTGTTGCCATCACTGAATTGACCTTCACTGNTCCAT
 CATACTGTTNGGCTGAACACTGACATTCCATAT

SEQ ID NO: 1740 TCCCCACCACTGTGATCTATGAGGATAACCAAAGACCCTCTGGGGTCCCTG
 ATCGGTTCTCTGGTCCATCGACACCTCCTCCAACCTCTGCCTCCCTCATCATCTCTGGACTGAAGAC
 TGAGGACGAGGCTGACTACTACTGTCACTCTTATGATTCCACCTATCATGTTCTGGGTGTTCTGGCGG
 AGGGACCACTCTGACCGTCTAGGTGAGCCCAAGGCTGCCCTCGGTCACTCTGTTCCACCCCTC
 CTCTGAGGAGCTTCAAAGCCAACANGGCCCACTGGTGTGGCTCATAAGTGACTTTTCCCGGGAGC
 CGNGACAGNGGCTGGAAGGCAGATAGNANCCCGTCAANGCGGGAGTGGAGACCACCAACACNC
 TCCAAACNANGCNACAACATGTNCCTCGGCGNGACACGCTAAGGGCG

SEQ ID NO: 1741 ACTTGTCACTCAAAGACCCAGGCAGTCCTCTGGAATAGGCTTTCCAGCTGCTCA
 TCCTTGGTGTATTCTAACACCTCAGCAACATGACGAAGAATGCTATAAACAGTTTTGGATTTTGTG
 AATTTGTCTTCACTTTGATTGCTTCTCTGGAGAAACTCTTCTTTTGACAAATCAATATATCCTTT
 TTCTTTGTCCACCTAATGACAACCACACACTCATTCCTGCCAATTCGGATGAGTTTGTGATAGA
 ACGGATCGCCTTCTGGGATAATTCACTAAGAAAAATCATGCCTTCAATGTTGTGATTCCAACAA
 GCTGACATAAGCCCCATTTCAAGCAATGGATCTGCATTACCATCACTACATCTTCCACCTCAGAAA
 TTTGTGTGATAAAATCTACACTTAACCCGGCATTCCTGAGGATGTGTGTGATTCCGCACTGANCCCA
 GACCGCTTNTCAATACAGAGACCAGNTTGTTCCTCACGGCCGCGCTCTAGCGTGCGCTTCG
 TCCCCGCGTCTTGCCGNGACCCTANGCGAATCACNCTGGCGNCGTNTAGTGGTCNAGTNGTCCA
 ACTNGGGATATGGATAATTNTCTGGGAATGT

SEQ ID NO: 1742 ACGCGGGGGCCATATTATCAGCGGTTATTCGGTGAGCGGTGGTGGTTTATTCT
 TCCGTGGAGTTAAGGGCTCCGTGGACATCTCAGGTCTTCAAGGTCTTCCATCTGGAACATATATAAA
 GTTCAGAAAACATGTCTCGAAGATATGACTCCAGGACCACTATATTTTCTCCAGAAGGTGCGTTAT
 ACCAAGTTGAATATGCCATGGAAGCTATTGGACATGCAGGCACCTGTTTGGGAATTTAGCAAAT
 GATGGTGTTTTGTCTGACGAGANAAACGCAACATCCACAAGCTTCTTTGATGAAGTCTTTTTTCT
 GAAAAAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGCAGCATAACTTCTGATGCTAATGT
 TCTGACTAATGACTAAGCTCATTGTCTCAAAGGTTTTATTACAGTATCAGGACCAATACCTTGTGAG
 CAGTTGGTACAGCGCTGGTGATATCAACAACTTANCAATTGGAGGAAACGTCCTTGGGTTTATG
 CTGACTCGCCGGACACCTAGGCAATTCACAACCTGGCGGCCNTCTATGGACCGANNTGACCAACTG
 GNGACATGGCTACNGTTCCTGGGAAATGTTCTCTCAATCCACANT

SEQ ID NO: 1743 ACGTAACTGGAAGCAAGGACGGCTGCATCAAATTATGGGATGGTGTTCAAA
 TCGATGCATCACAACCTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTCAAA

AAATTCTAAATACATTCTCTCAAGTGGAAAAGACTCTGTAGCTAAACTTTGGGAAATATCAACGG
GACGAACACTGGTCAGATACACGGGCGCGGGTTAAGTGGACGCCAGGTGCACCGGACACAGGC
TGTGTTTAAACCACACCGAGGACTATGTGTTGCTGCCGACGAGAGGACGATCAGTCTTTGCTGCTGG
GACTCGAGGACAGCCGAGCGGAGAACCTGCTGCGTTGGGGCACAACAATATTGTACCTCGGCCCGC
GACCACGCTAAGGCG

SEQ ID NO: 1744 ACTGTATCCAGCACACAGAAACCTCAGTGTTCCTCTGCTGGTTTGGGGC
ACAAGGAAGCCTTAGGGTATGGGNAAAGGNTGTTATTANCTAGAGGTTACTCCATNAGGTTTGG
GNTTG

SEQ ID NO: 1745 ACTGAACTTTGTGTTGACCATAGCCTTCTGTCTTTCATCACTTTATCTCCATG
TATGTATCCTTAAAGAATAATAAATGGATTTTAACTGAANAAAAA

SEQ ID NO: 1746 ACAAACTAGGAACACAGAAAAGGACCAGAGAGGATGTTACACTGTAAAGT
CTTAGGACCTACTCTAAACTTCTGTCTCATCAAGACCCTCACCTAGAGACCTGAGGGTTCCAGG
TCCACTGGAGAAAGTAAGTAGTCTCCGATCATCACCTTGCTTACCGAAGATGGCCTCAGGTCAC
TCGCTGTCAAACCTAATAGAATTGACCTGGACAGAGATTGAGCCTCCCGGTAGCTGCCGCTTCT
TCTTGGTTTCTCATGCCGAAAAGGACTTGCCCTTGGTGAACCTCAAACCTGATTGGCTCGCTCTCC
CCAGCCTCCGGCTGCACCTCGCTTGNATCAAAGGAGTTGCCGCAACTCGTGAATCCACCTCAATT
TCCTNCTCCTGACCTTCGGAATGGGGATGATGCCCTTTTCTCCTTTCTTCTTTGGAATGNGTA
NGGGCTGAAGCTTATCTTCTTGGCCGANGAGCTTGCTCTGGAGCCTNTTGTTCGGTCTTATGACC
TNTTGGAACTACCATGCGCTTTCTTNTCTCTCTATGTTTAGTGTTTTNTTGGG

SEQ ID NO: 1747 ACTTTTTCCAGACACTTTTTTGAGTGGATGATGTTTCGTGAAGTATACTGTATT
TTTACCTTTTTCCTTCCTTATCACTGACACAAAAAGTAGATTAAGAGATGGGTTTGACAAGGTTCTT
CCCTTTTACATACTGCTGTCTATGTGGCTGTATCTTGTTTTTCCACTACTGCTACCACAACATATTA
TCATGCAAATGCTGTATTCTTCTTTGGTGGAGATAAAGATTTCTTGAGTTTGTGTTTAAAATTAAAG
CTAAAGTATCTGNATTGCATTAAATATAATATGCACACAGTGCTTTCCGTGGCACTGCATACAATC
TGAGGCCTCCTCTCTCAGTTTTATATAGATGGCGAGAACCTAAGTTCAAGTTGATTTACAATTGAAA
TGACTAAAAACAAGAAGACAACATTAAACAATATTGTTCAAAAAAAGGCTC
CTCGCCGNACCCGCTAGGCAATCCNCACACTGCGGCCGTCTAGGGTCCGACTCGNCC

SEQ ID NO: 1748 ACAGTGATTTGGCTATAGACTCTCGCCCTTCAGGGCAGACTGTCCTCAGTTC
ATCCTTATTGAGAGAGAAAAGTTGTGCACCATTTAATACTCCAAGACTATTGACAGTCACAGGGTT
GAATCCCTTTGACTGTAACCACGTCTTCACATCCTCTGGTGTGGAGTCGTAAGTGATATTGATAAC
TGGCACGTTCTGCCGTGGCACATGGAATTTCTTCTGAGCGGCACTCCGACCAATGGTCAGTCTGNG
GATGAATTCATNTTTGCACTTCCTTCATTCTGANAAATCCTTTGGNCCACCCGAAAAGTGGTTNGGTC
TCTGGCTGCTCGCAGATCTGCCCCACTGCACTGAGCTGCTGTTTTGACGTGTTATATTGCTGGGAC
CTTTGACACAGGAACAGGTGCTTGGAGTGGAAGGGGGAAGGGGAACAAGACANGAGCTGTGTTG
AANGAGGTATTGGACANGGGGATATNAGNTGCTTGGCCATACTCATCCTTTGTTNTGGATAGATG
ANTTAAGGGGAT

SEQ ID NO: 1749 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCAAATTTCTTTAATGANAAC
CANAATTAACCTTCANAGGGACCCAACGTCACTTCCATTCAAGGACTTGATACAAAAATTTA
GTTTGAAGTGTATTAGCAGGNGGCAGGAGCCACCTTCAAATGAATCTTCAAATTTGAAAAATCT
GCTTCACCACCTGTNNGGGGATAAGTTGCAAATGGAATAATTTAGTATGGTTGTAGCTATTTTAAA
GACCACCTCNCTGGANACCTTCCATAACCCCTCTGNTGGNTGCTTTAATCCCATATCCATNANAG
NTGGTGNNCCCAGNGTANCATATCCTCCATACCCCGAACCTTGGTGTATATCCATAGTTGCATAAC
CTTGATCCAATAGTTCTATATCCTGGTCAGNTTGTATGGGGCCCCACCTTTNCAANACTCTTCTGNA
ANCCTCTTAGANCCCATTGNTGTGGGCTGTTTGTCTCGNATGGCNCTTTNTCCATTTACTAGACC
ACTTGGGATTCTTTCATNCTTTTT

SEQ ID NO: 1750 ACGCGGGGGGAATCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAAC
AAATAGAAGACCTACAAGGTGGAACAGCAAATAAGGATCCAATTAAAGCCTTTTATGAAAACAGG
GCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCACTTAACTTTGTGGAGAAGGAA
AGAGATTGCATAAAAAATNTTACGAAATGNCCNACGGGTGGNAATCNANATCTAAAGGTGGGCT
NGTNNNAGCGTTGNACGTTGATAAAT

SEQ ID NO: 1751 ACAACATGACTTAAACTTTTTTTTTTCTATTAAACTTAAAGGGGAACAAAAAC
TTGAAAAAGCCCTGTTCTTCAGAAGGTGAGTGGGTTGAGGGAGGCAGTAATATGAAGTGACTGCT
GTGATTTTTATCTACCAGATTTTTNATATTNGCCACTGNTAANTTGTGGAANGGGGANATNTGA
TTANGCNGATANGNGGTTTCATNCTATGANGCTTNTTNAATCNTAGCTNATATTTTCATNTCNTNT

CATTTGCGACTTANTCTNAGNGTTTCG

SEQ ID NO: 1752 ACAAAGAATCCGTGAAGAGACTATTAATGTGACATGAATTATGGAGTAGAA
AAATCTGCTTGATTTATTAATTTTATGATATATGTGATCAGTATCTAATTTGATATAAAATTGAAAA
TGTTAAAAAATCATTTTTTTTCTCAGAGTTAAAAATTATTTCCCTCATACTAATGCTTAATGGCAAT
GATTACTCCAGAGTTTTTTTAAATTTTACACTGGGGCAATAGACTAGGAGGTCTCTGATTTCTTCTTG
GTCTAAAGGTGTTTGNTTTTATTTCTACCTAATAAGTTTGGGATTCATGNNTATACATGCATTTAAT
TGGGANTTATCACCTTTCCCATTTCTTTCCCCCAAGCTGGCATTTCAGTAGTTGTTTTGAATAATGGN
TTTGTCTCTGGGAGGCAGGCCAGACCCATTTCTTGCTTGCANTCCGGCTGNGTCCATGCTGCTGC
TACTGTGCATTTCNATTTGGNACTCTGGTAGACAGGTCTCGGATTTCTCTACCTGATTTTCTAAANA
AGA

SEQ ID NO: 1753 ACTACACGCACCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCGAGGA
GATCGCCATTATCCCCAGCAAAAAGCTCCGCAACAAGATAGCAGGTTATGTCACGCATCTGATGA
AGCGAATTNNGAGAGGCCNGTAAGAGGTATCTTTATCAAGCTGCATGAGGANGATAGAGAATG
GTGAGACAATTA

SEQ ID NO: 1754 ACAAAGATGACTATAAACAAGATGCAGCCCTCGGTTTCCATGAACAGCACAC
TATTACAGTAAACCAAGTTTATATTCCACCATCAAGTGTGGCTCTCCCATGACTTCGCTTTGTGATG
GATCATTAAGAATATCCTCAAATCCAATAGTCTCATCATTACCCCTCANAACATCCAGTGAAAGAT
TTTGAGCTTGAAAGAAATGGAAGACGCTGAACCTGCTGCCTGCACTGCCTTGAATTCATCTTGTAATTT
TAGCGGAGCAATAGACCCTGAATGNTTCTCAGNGTGGNAAAATTNATTTAATNTTGGTGAGCTGG
AAATTTTTTTTCNGANNATTCAAGGGGATGATGACAGCAAAATGTTTCATTGTTTCNCACANNAAAAACCT
TNCANANANATCATGACTTTCNAAAGGCCACTTGNTGAANGTANAGNACTGNATCTNCCTTACTN
ANATCNANTTCTCTGGNTTCATNTCCGNNCTNTGCNACAGNNCTTTCTGCCCCGTTCCGNAGGCGCC
CCCCCGTGTCTGCGGCGGCGGTC

SEQ ID NO: 1755 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAGTATATAAAAACATTTATT
CATTAACAAAACAAGGAGATTGGCAAACATATNTTCCAAAGTTGAAGCAGCTCAACNCAGTTCAGT
TAGGCTAATTTAANAAAAAGCCTTGCAATTTTAAANAGCGNGTAGGCATTTTTTTTTTAATTTGANAT
GGAGGTTGCTATTGTTGCCAAGCTGGAGTGCAATGGTGTGATTTCGGCTCACTACAACCTCCCC
CTNTGGGTTTANGCGATTCTCTGCCCTCANCCCCCTTGNNTAACTGGGATACAGGCNACCCCAATAACN
CCCGGGCTTATTTTTTATTTTTTAGTANANAGGGGGTTCTCCATGTNGGGAGGNTGGNCTCGAACTC
CTACTNANGTTATCNCCCNCTTGGGNTCCGAAAGGNNGGGATTACANGCGTGACCCAGNCCCGGC
TTTTTTTTTTTAAAAAGANACAGACAATTTTTTCAGGGAACANATTTAATTCNGTNCCTANAGAA
CCCTGCCAGGGGGAAGNACANACTTNAGGTTTGGCTGGANCCATCNTTNAAGGAGTGTTTTGGG
GGGCGCTTTGGATTNGGA

SEQ ID NO: 1756 ACAAATATCCCCACTTCCCTTGAGAAAGAGTATATCTAAAATACACTTTGAT
GAACACAGAATATTAACACATTATATGCTATAGAAGTGAACACAAATACATTTTCTCCAAAATTTT
AATAGTCTAAGGAATATATAAGCATTGATAATATGAAGGAAAATGTTTGAATTTATTTTTAAATTC
AAAATTCTCCTGGTTGTAGAGGTGAAAAAAGTAATCAGGTTACCCCAAAAGAAATGTGCTGGCAT
GNTCTTGATGTCTCCTCTCCAGCTGAGTAAATGGATTACTGCAGTTANACCTGGTGAATCAAGAAG
GTGGCATTCAGTAGTGAGACTTTTATTATCAAATAGTTCTGACTGAGAAATTTAGTTCCCTTCTT
CTAAGATGCTATTTTGTGAAGCTGTATTTTTTTCAGGGCTCTCATCAAACATCCTGNATGTAAATTG
AAGAATCAGTTCCCTTCCCTTCCCAACATCTGAAATCCTTTTTTTGTAGTATTAATACTCTGTCTCCCC
NCNAGAGAGGGCAACTCATTANTCCTGATAANATCCCCTNAGGTGNTNTNCACATATTNTTAATAA
NTGGGATCCGGNCTGANATTTTTNTCTCTGTTTAGAACTAAANAAG

SEQ ID NO: 1757 ACGCGGGTTCTACTTCAACAAAGAAAATTTTGTAGTTATAGGAATAAGGACG
GTAATCTGCATTTTGTCTCTTTGTATCTTCAGTAATTTACTTGGTCTCGTCAGGTTTGAGCAGTCAC
TTTAGGATAAGAATGTGCCCTCTCAAGCCTTGACTCCCTGGTATTCTTTTTTTGATTGCATTCAACTT
CNNTTACTTGAGCTTCAGCAACTTAAGAACTTCTGAAGTCTTAAAGNTCTGAAGTCTTAAAACC
CANGGATCCTTTCTNAAAAAANAACGTGAAATCTTTCTGGACAGCCNTGACTGTAGCAAGGCTTT
GATAGCAGAGGNTTGGTGGNTCAGAGTTATACAACATCCCNGGTGNTGNNTCATTCCAGGGTTA
CCNTCTTCTGAGTTTGGTNGTATTNTTGGCCTCNCCTCCNGANTATTTTAAAGCNGGTGANITTNAC
TAAANTGNTGGATAATANTGNANCTNCTGNCCCTTTNTNGCNNTATCCGTACCNATCCCATAT
ATCACTGGNACCTTGCNTACNNCTAGGNTTTNNTCNTNGNGNCTTCNANGGGCCNCCNNGCCNNN
TTNCTATAATGTATATTTTTNGTGTAAT

SEQ ID NO: 1758 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAACTTTTAAACAATTTATTAGTCTTAT
TTTCCAGTAAATATTACATAATGTCAAAANAATGAAATGATAGCGATATAGCCAACTACCTTTA

ATTAATTCCACATAAATATTTAAAAATCTAAAAACCTCANATCAGCANACCGAGTCGAAATGTGATT
CTTCAAAGCAAGTATTGCTTTACCCCTGCCTGAATGCAGTCCGTCATATGACCACTAACTTGCATG
TGACCAAATGTTTGCANAGGGTTTTTTANATATGCTCTNGGGGAGCCGCATCCGCAATCCAAGAA
NAANATGTTGTTGAACTGCGTTGCACAAAGTTTCTTGACCTCTTCATTIACCTCAATCAGGTTGCAT
TTTTTTGATTCAAATAACATAGAGCTCCGCGATCAGACTTTTTACACCCAGTAATCACTCATGG
CCTTCAATGACTCCTATCTCTCACTCTGGAAAGCCTGTGATGCCCCGAGATNTTCNTAATCCGGG
GCCGGAAGTGGCGAACCTGGNGTTCTATNGGACTGGCTTTTTTCGGGAGATATG

SEQ ID NO: 1759 ACTAGGCCATGAACTGGGGCACTGGAAGTTGGGACATNCAGNCAAAAAATATC
ATTATTANCCAAATNAATNCTTNCCNGGGTTTTTTTTNATTGGCNGAATNAATGGGCCAAANGGAN
CTTTNGCTGCATTNGGTTTTNATNATANCCANCCCACTCTTATNGNACTATNGATCATCTTCCAGT
TNATTTTTTCACCTTACAANGAGGTTCTTTCTTTTTGCCTAACAGNCCTAANCCGCAGATTTGAGTT
TNAAGCTGATGCNTTTGCCAAGAACTNGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAAC
TAACAAAGATAACTTGGGATCCCTGTTCTGCTGGTTGTCTCATGNGCATTATTCTATCCTCACTGTA
GAANACTCAGCCTTGAAACTATGNAGCAANCTGNATNCCAGATCTGGACTGAANAATTTCTGATT
TTTCTGCCTGNNATGTCCACTTTGATTTTTAACTTTTTTAAAAAAAATTANT

SEQ ID NO: 1760 ACCTGTGTTTCATATCCTGAACTGCACCAAGGAATAGCTCCATGCTAAACTGTC
TTGGCTAAAATACAACCAGTGCCATCATTCTTAATCAGACTAATAAACAGAATGTCTTTTAAGGTA
ATGAGTTAGATGGCTGNGTTTAGGTTTTGTTTCAGGATTTACTTTGGATTCTCCTGCTTTAAGACCCA
AAGAAAGTTATATNGAGTTTTTATGGATGATTCTATGTGTTTTTAACAGAGTGCGATAGGTGANTT
AAACATATTAAAAGAGTCTATAGCATCTGTCCAAAAAGATTATATNCTATACAACCTATCAANTANT
ACAAAACCATTTTCATTGCTTCAACTGAGAANATCTATCACACCTTCTCCTCTGAGNGGTCATCTG
ACAAGCTTGTTTCAGTTTTTATINTCTAAAACTNANATCTTTCTTTCGCCAGTNTAGCNANCANTTT
TTTGGTTTTNTGAGNCACTCTAAGGAGNTTAAAATCCAACC

SEQ ID NO: 1761 ACATAGTGTCGCGANCTCAAATCGGCATTTAGATAGATCCAGTGTTTAAAC
GACACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC
CCTTTTTGCTGTAATTGCACCAGTTTTTAAAGCCTCTGGACAGAGCAGIATTTTCGTTTTAAACCTTTGT
TTTTCTTAAAGCTTACAGNGTTTGGCTAATTTCTCCTCCCCTTTTTACAAGACGGGGGCCGAGGG
TGGCCACTGGTGGCAGGTTAANGGGATCTGCNCTTTAAGAAGCCCNAAATTGAAGNGNAACTTG
NAGAAATTNGGGGCCGNTTTTAAACCTGGNNGAGANNTAACCAACCNCNTTTTTAAATAGGAATC
CAACCGGGTTTCNCGTTACCCCTTTTTTTTTTTTACAANAACCTGANAAATAANAACGTTTNANCC
TTGNTTTTTGTTTTTAAAGGGCAAAANCTCTTAATTTAAAAATAAANT

SEQ ID NO: 1762 ACTAAGTAGGTGAGAANCTGAAGTCCTCAAGTGTTTCATCTTCCAACTTTTCCC
AGTCTGTGGTCTGTCTTTGGATCAGCAATAATTGCCTGAACAGCTACTATGGCTTCGTTGATTTTTG
TCTGTAGCTCTCTGAGCTCCTCTATGTGCAGCAATCGCAGAAATTTGAGCAGCTTCATTAANAACCTG
CATCTCCTGNGTCAAACCCAANAATATGTTNGTCTAAANCACAGGAAAGCCCTNNTTGGTTNNATT
TGCTTNANCAACTGNATCCTGTGTGAGGCCCTCNTGAACCAAAATCCNAATNGCNTTATGCATTAC
NANGTAATNANCNTNACCCCTGAATNTGAANCTGGTTACCAANNCNTCCNCCAGCCTAAAATCAGG

SEQ ID NO: 1763 ACGCGGGCTAGGTGGCTTTGACCCCTGGGGGATTAATGGCAGTGTACACAAG
TCTGGTGGCGGTAGAAGGAGGATGTTATTGGCATCTAGTGAAGAAGAGGCCAGGGGCGCTGCTGA
ACGTCTACGATGTGCAGGACATGTCCCCACAGCACAGAACTATCTGGCCCCACGTGTCAATAAG
GTTCAAAAAGCCTGGGGGATTGCCTTCTGTGCTTCCACGAACACATATCCATGTATTATGTCATTC
TTGCGGCAATGCCACGAGGTCAATTGAGACTCCCTGACTAGCATACATAATGTTAGGATCTAGGG
AGTTGCTAATGTCTACCTTGCTTCCAGCNTCTATGTGTGGCCTTAGCTTGGCTCTTTAAACTANN
CCTNTTTTCCGGGCCTGCACTGGTTTGTGATCCATNTTANTTACTNCCGTGCAAAAAGAGANTGAG
AGGCTGGCNTGATGGTTACCCTGAATCCACACTTTNGAGCC

SEQ ID NO: 1764 ACTCTTTGGAAGCATTTGGACTTGGCTTGATCGTAGGAGAATCCGGTGTCCAG
TTGCTGGGCAGACTTCTCCATGTGTTTCTACATACTGGAACGCCTTCACCAAGCGGGGGTTTCT
TCCACGCTTCGGCCCACTGGGAGATTGTTGACGCTCAAATGCTTGATGACTCCATTGGGGTCAATT
ATGAAGAGACCTCTTAGTGCAAGACCAGAACCTTCTAACAGCACACCGTAGTCTCGGGAATCTG
CTTAGTTAAGTCTGACAAGAGTGCGATGTTTCATGTGGCCCAAACCACTTCTTTGGTGATTT
ATCCAGGCAAGATGGCTAAAAGTGGGAATCCACTGANCTGCACAACTTACAGTTACATCGNGAA
TTCNTAGCTTTNCACTAAACAACAATTTCTGANGACAACAAGGGGAATCAANGATAAAAAAAGCN
CAANTTTTCCCTTAAAGCATCAAGNTTAGTCTTGACCTTCATTGAACGGTTGACTGGCCGACACCT
AGGCAATCCAC

SEQ ID NO: 1765 ACGCGGGTGTGGAGAAAAGAAAGACCTCTATAAAGAAATGAAGAACCTTGC
TAATCAGTGGTGAGACTGTGACTAAGACCATTTCTTTAAGAGTTTGGGTTTACAGATAGGGGAGG
AGCATGGTGGATGCGGGACAGAGATAGGACATGGGATTTGAAACTGAAAGACATCATTTTGGCCA
GGTGGCTTACACCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGAGTATCGCTACAGCCCAGG
AGTTCAAGACCAGCCTGGGCAACATAGTAAGACCCTGTCTCTACATTTTTTTTTTAAATTAGCTGGC
ATAGTAGCATATGCCTGTAGACCCAGCAACTTAGGAGGCTGAACTGGGAGGATTGCTTGACCTGG
GAGTTCAAGGAAGCAGTAAGCTGAATCATGCTACTGCCTCCACCTGGCACACAGTGANCTNTTCTC
AAAAAAAAAAAAAAAAAAAAAGTCCTCGCCGGACCCCTANGGCANTCCACNNCTGNGGCCGT
CTTNNGNTCCACTCGNNCAACTGGCNATATGGCTAGTGTTCCGGGGAATTGTNTCG

SEQ ID NO: 1766 ACCAAGAACCGCTTTATCCAGATTAATATAAGTGAAAGCCTTTAAATGCAGG
GACGAAAGGTATCCCTCTAGCCATTCACTGGCACCAACCGATCCAAAGTCTCCAGCACTCCAAC
GGCAAAGATAATGCTTCTGCTGGGCTGAAACCCATCTTTAAGACCATATCTGAGAACATCTGGGC
AAGTTTCAATAGGAGAGCTGTGCCTACACCGGATTTTGCAGCTCCAGGGCCCCATGCATCTCTCTG
GGCCCCAACTACAACATAGTGATCTGGTTCTACAAAGCCTTTAATAACTCCAAAGATGTTAAGAAT
TTTTATCTCTTTCANCACTTGCTCACAGTGAGCTTCACATTCTTGCTTCTGAGGTACCATCCTAC
ATGTAGAGCTGTTTCANCAAGAGGANAGCTTCTTCATATTCCCAACAGTTTTNTGCAAGTTTGAAN
TGCNGGACGGTTTTTAGNATCCTGTGACCAAATGNNGAACTGANTGNATGANGAAGGGANCAGG
NTNTAGGTNCTGCCAANACTGCAAAANGAAAGNTGGTTACATGGA

SEQ ID NO: 1767 ACGCGGGGCTCTAATCTTCCATTTTCTGTCCCTGAGTGAGTCTCTGGCGTCCC
AAATTGCCTGTTTTTCTCGCAGGCTCTATTCCGTTTCGCTGGTTCCGCCACCTCAGGGGAACGATGGC
CATGGAGTCCACAGCCACTGCCGCCGTCGCCGCGGAGCTGGTTTCTGCCGACAAAATTGAAGATG
TTCTGTCTCTTCTACATCTGCANATAAAGTGAGAGTCTGGATGTGGATAGTGAAGCTAANAAAC
TATTGGTTTTAGGACANAAACATCTGGTGATGGGGGATATCCAGCANTGCAATGCATTNCAGNA
ACAGNTTATCCTTTTAATTAAAAAGATGGAAGACAGCTAAANGAGNGTGGAGAACCCTTCTTTTC
NATGGAAANCACTTTGNAGTG

SEQ ID NO: 1768 ACTTTTTTTTTTTTTTTTTTTTTTTTTTNGGCCATTTGCTATGTTTTATTTTGTAGTA
GCTTATTAACATAACATGCAANTAATCAAAGAGAANCNTACNTGACTTANAGTGAAAAATANTT
CTAGAAAAGTTTCACTAGGTAAGTATGCAAATNTTATTCTAAAAANACTNNTTTAAGTGCATGAA
GCTTCATGNTTTTGAATATCTTGGCCTCAATATCTACCCCTATTTTAACAGACAAAATTGAA
TGTATCAAGATAAATTGGGTGCAAGAGAGTAACATCCATATGTTTTAATCCAGCTTNGAGGGACAT
TAAGATTAAGGATTATAAAACTTGGCTGATTCTGCAACCAGNAAAAGGTTTGNACATNTTTGCA
GTAAAATAAAAAACNCTAATTTACAATAANCTGNNTTNNAGGCANTCGGGATTGGGGGGTCTGGG
ANAAATAGCCTCCTTCTNTTTTNTTAAAAANANTGTTCAAACCTCCCAATTAATCTNGANNATN
AACGNTAATTTGGTCTTGAACCTCCCT

SEQ ID NO: 1769 ACTGCAAGACCCATTTTCCCTCCAGTTAATACACTNCCAGGATGGNCNGCAG
AGGGGGAGACTCTGAGAGAAGCTGGAGGCCCAAAAGTCCACTGACCCCTTTCTGTCCCAGAA
ATGAATAAAGGACCCAGTTGTGCTTTCCTTCCAAAATCCTCAACAAAGTGGTTNGTGTCTCCAAGAA
AAATGTGGGAATAAAAAAAATCATGTCCCAAGGCATCTTTGTGTGTGTCNGGGGGTGGCGGTGG
CCGAACCTCTAGCGNACACCTCGNNGGANCCGGCCGGAACCAACCGAAATGAAGGNGAANAT
GCTGAGCCGGAATCCGGACAATTATTGNCCGGAACCAAGTTGGACTACANAGAGTCCAAGAAAC
TATGATCCNCTTTACTCNNTTGAGGCCACNNAATANGGAAAACCTTTAAATGCTACCAACNGGAC
GAGNTTGTCAAAACATNCCTGCTCNNTGATGGNCNGGNAGGAGNAATGGTGGAANNTCCANNA
ACNGNTCTGCCTTTGGGCGGNAGGAAGGAAAATTGGATCACNACGGGATG

SEQ ID NO: 1770 ACATAGAACAGCCACAGCTGATGACAAAAAGCTTCAGAGTTCTCTAAAAAA
ACTGGCTGTGAATAATATAGCTGGTATTGAAGAGGTGAACATGATTAAAGATGATGGGACAGTTA
TTCATTTCAACAATCCCAAAGTCCAAGCTTCCCTTTCTGCTAATACCTTTGCAATTACTGGTCNTGC
ANAANCCAANCCANTCACAGAAATGCTTCTGGAATNTTAAGTCAGCTTGGTGTCTGCAGTTAACA
AGCCTTAGGAAGTTACTGAACAGTCCCCGGCAAGTCTTGACAGTAAACACCAAACCGAAGACA
TTGTTGAGGGAAGATGATGATGTCCAAATCTTGTAANAAAATTTTGNAGCATCAAAGAATGAA
NCTACTAAAAGTTGGTTTTGGANCTGCATGGCTANTTAACAATCANTTTGGGTNCAAGTTTCAGAC
NTGANACTCCCTGTCTATCAGGATNAAAANTTTTGGTTTAATATGCTGGTGTCTANATTTTCGC

SEQ ID NO: 1771 ACGCGGGGCCTTTTCTCTCTTACGCGTGGGGCGCCACAATTTGCGCGCTC
TCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTTCGGAGACCTGAAAAGCCC
TGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCAT
CACAAGCAGATGTGGCAGTNTTGAAGCCGTGTCCAGCCACCGCCTGCCGACTTGTGTCTATGCCT
TACGTTGGTATAATCACNTCAANTCTTACNAAAAGGAAAAGCCACCTGCCAGGAGTGAATAAAGC

TTTGGCAAATATGGTCCTGCCNANGTGGAAAACACTACAGGAAGNGAANCTCAGATATAAAAATG
ATGATACTT

SEQ ID NO: 1772 GGCACCTACGATGGTCACATTCATATTGGGCATTGGATCTATTTAAGCCTAGA
AGTATAACAGATAATCAGTTCCTTAAGTGTAATATGTTCTTAAATGTTTGGCCTTTTTATCTGTTA
TTCAAATGTATTAGTAATTCTCATATTTTGCAAACAGATCCTTTTGTGTATATTATAAAATATATAC
CAAATCTGTTTTTCTTTTGTCTGNGGAAGATGTCTTTATATAATATTGAGACTTCCCTTGCAAATGA
GAGACGGGACTCTGGTCAGGTATAGTGTGTAGGCCTAGCCCCATATATTAGGAACTCATAAACTC
NGAAATCCAAGGATTAACATTTTATGTCTCCTTCATTCATGCAAGTCATGCTTTCATTCTACATGT
AGGTAAACTACAAAGTATGGAGGAAAAAATAGAAGTTTCNCATTGGAAATTTTTTCCANTCA
AGGNAATGTCTTTAGCAACTTTGGAATCAGCACCTTTAANTTTGATTGNCTTACCCTATCAANAG
AACCAATNAACNNTTTCTTTTTTCTNTGCANGGAAAAGAAAANNGGAAACATTCTNTTTNTTTNCC
AAA

SEQ ID NO: 1773 ACTACCAGCTTTCACATCAAATTTGGAACGTGGAGGTGTGGAAAAGCTATTG
GATTTAAGTTGGACAGAGTCATGTAAACCAACAGCAACTGAACCACTATTTAAGAAAGTCAGTCC
ATGGGAAACATCTACTTCTAGCTTTTTTCCATATTTTGGCTCCGGCCGTTGGTTCTATCTTCCCCG
ACTGCCCGCGCTCACAGTCTGCTTCTTGTCTTTTGCCTCATATCGTCAGGTAGCTAGTTTCGGTT
CAGCTGCTCCTCCCAGACAGTTTGATGCATCTCAATTCAGCCAAGGCCCTGTGCCTGGCACTTGTG
CTGACTGGATCCACAGTCCGGCTCTTGTCCCACAGGACCTCCCCAGAACCCACCTTCTGCACCCT
ATTGTGGCATTGTTTTTTCAGGGAGCTCATTAAGCTCTGCACAGGCTGNTNCACTGCAACATCCTG
GAGGCTTTACTACCAGCCCTTNTGGTGGCACCTTTCCCTGAGCTTGGATTCTCCCCCANCNTTTAAT
TTNTTCTNNTTCTACANACCCCTGTTCCCNNTAAGAANGGTTTTGGGGNCT

SEQ ID NO: 1774 ACCCCTTTATTCACTGTTGGAACAAACTCATCTCAAAGTAGAAGATGTGAGTG
CAGTTGAGATTGTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATTCTTT
GGAAAAGATATTAGCACAACTCAATGCAGATGAAGCAGTAGCCAGAGGATGTGCATTACAGTG
TGCAATACTTTCCCCGGCATTAAAGTTAGAGAATTTCCGTCACAGATGCAGNTCCTTTTCCAAT
ATCTCTGATCTGGAACCATGATTCAGAAGATACTGAAGGTGTTTCATGAAGCTTTAGTCGAAACCA
TGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGGAGCTAGAAGCTTTCTAT
TCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAAATTAGCCGCTTTGTAGTTCCANAAATGTT
TCTGCACAGNAAAGATGGAGAAAAAATTTANAGTNAAAGTCAAAGTGCGGAAGTCAACNCCCA
TNGCATTTTCACCNATCTCTNCGGCATCTATNGGTGGGANGAAAGTCCCAACTGAAGGANA

SEQ ID NO: 1775 ACCCATCCAATGAGTCCCCNGAGCCTCCANAAGCTGTTGTCTCCTCTCTGGGG
ACAGCAGCTCCTGCCTTTGGAGGCCAAAGCCCCAGATCTCTCCAGCCCCAGAGCTGAAAACACCA
AGTGCCTATTTGAGGGTGTCTGTCTGGAGACTTAGAGTTTGTTCATGTGTGTGTGTGTGTTGGTTAA
TGTGGGTTTATGGGNTTCTTTCTTTTTTTCTTTNTTTTAGTCTACATTAGGGGGAAGTGAGCGCC
TCCCATGTGCANACAGNGTGTCTTTATAGATTTTTCTAAGGCTTTCCCAATGATGTGGGTAATTT
CTGATGTTTCTGAAAGTTCCAGGAANTNACACCCGTTCCCCATTCTNACTTGCCCCACCCAGTTG
TGACAACCTCCGGNGTGGATATACCCCNCGGGGAGTCAATNGGNTTNTTCCCNACCCCNANTT
TTNTATAAANTGNANGGCCTAANAATACCNCTTTTCTGGTTGNAAAAACNTCAGCTNAANTTNCTG
CTTTCCNCCNTTGANTGNTTGAAANNTCTTATGTTAAGANGGCANGGGGATGNTCCNTGNTAA

SEQ ID NO: 1776 CANGTTTCCCAGCCCACAGTCATTGCTTCATTCTTGTCTGATCAGATGGTAG
TTAGAAAAGAAGCTCTCCTACATCCATCTTCTATACCAGGAAAGAGGAAGAGTGGCAAAGCAGA
GTCTTGTGCCTTCAAAGATTCAATCTGTTTCTGTTGTGGGCTAAGGCATCCTGTTCCCAGTATACGC
ATTTTGAGATCAGATAGAGTTGCTCTTCCAGGAGTCAGCACCCACGCTCATGTCCGTCTTTTCAAGTT
AAATCTCCTTGGTTTAGTAACCTTGTGGATTACTGCAGTTAANACAGAACTTCATATGATTGC
CTCCCTGACTGCATGGNCACCAGGTGATGTGTACATCAGGCACTGAAGACAGGGAACGTGGGGG
ACCTTTAGCAANACCTCGTCATCAACTCCCAAGATAGAAATNGGTATNTNGGTAGGGTTCAAN
GGCTNTCCACCAANGGNTNGGCTGGGAATNNATANNACCCANGTTTTTACTGGGTACCTTGGCCG
CNAACCNCCCCTTAANGGGCGAATTTTCAACNACACTGGCGGGCCGTTANTAGNGG

SEQ ID NO: 1777 ACGCGGGGACGGCAGGCGTCCGCGTCGCTAGCTAGTCGTTCTGAAGCGGGCGG
CCAGAGAAGAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAGAAAAGGTT
CGCCCTTAACATAGATCGATGGTTGACAATCCAGAGTGGTGAACAGCCCTACAAGATGGCTGGTC
GATGCCATGCTTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCGGGCAGAG
AAAGAGTGCAAGATAGAATATGATGATTTTCGTAGAGTGTGCTTCGGCAGAAAACGATGAGACG
TGCAGGTACCTGCCCCGGCGGCCGCTCGAAAGGGCG

SEQ ID NO: 1778 ACCACTGAAACCCTGACCCAGAAAAGTGGCTTGCTTGACACCCAGCTGCCT
TTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATAAAAAGTAATGAC
TTCATAGAAATGGCATTATAATTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGTTTT
AATAAAACATGCTGCAACCATGGTNTACAACAAAATACATTINTTTGGTGATTGAAATTAAGGC
CGTATTTACAATGACTTAATATAAGACTGACTTTTATCCTGCTTCATAACTTGTATGGAGAACTCAC
CAAGAAAGAATTCAATACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCC
TAAGCTCTTGAGTTTTAAACACCAGTNNATTTGTATTAAGAAAAAATGGGGCCTTAGCTT
CTGGCTTTTAAATTTTTGCCANCCTAAGGGACATTAAANACNTAAATTAAACNAACAAATAACCAA
ATAGGCCCTCTGNCTTTCAAGCAATCATTINTTTGTAAAAAGAAAAANNNTNTTTNAACCCCTTA

SEQ ID NO: 1779 ACTATTTTCATGGTCCAAACCTGTTGCCATAGTTGGTAAGGCTTTCCTTTAAGT
GTGAAATATTTAGATGAAATTTTCTCTTTTAAAGTTCTTTATAGGGTTAGGGTGTGGGAAAATGCT
ATATTAATAAATCTGTAGTGTGTTTGTGTTTATATGTTTCAGAACCCAGAGTAGACTGGATTGAAAGAT
GGACTGGGTCTAATTTATCATGACTGATAGATCTGGTTAAGTTGTGTAGTAAAGCATTAGGAGGGT
CATTCTGTGCACAAAAGTGCCACTAAAACAGCCTCAGGAGAATAAATGACTTGCTTTTCTAAATCT
CAGGTTTATCTGGGCTCTATCATATAAGACAGGCTTCTGATAGTTTGCAACTGTAAAGCAGAAACCT
ACATATAGTTAAAAATCCTGGTCTTTCTTGGTAAACAGATTTTAAATGTCTGATATAAACATGCCA
CAGGAGAAATCGGGGATTGGGTTTCTNCTGAATAGCATATATTTGATGCATCGGATAGGTCATTA
TGATTTTTTACCATTTGACTTACATAATGAAAACCAANTTCATTTTTAA

SEQ ID NO: 1780 ACGCGGGGGAGGCGGCACTGGTCTCGACGTGGGGCGGCCAGCGATGAAGCC
GCCCAGTTCAATACAAACAAGTGAGTTTGACTCATCAGATGAAGAGCCTATTGAAGATGAACAGA
CTCCAATTCATATATCATGGCTATCTTTGTCACGAGTGAATTGTTCTCAGTTTCTCGGTTTATGTGC
TCTTCCAGGTTGTAAATTTAAAGATGTTAGAAGAAATGTCCAAAAAGATACAGAAGAACTAAAG
GCTGTGGCATACAAGACATATTTGTTTCTGACCCAGAGGGGAACTGTCAAAATATAGAGTCCCA
AACCTTCTGGATCTCTACCAGCAATGTGGAATTATNACCCATCATCATCCAATCGCAGATGGAGGG
ACTCCTGACATAGCCAGCTGCTGTGAAATAATGGAAGAGCTTACAACCTGCCTTAAAAATTACCC
GAAAAACCTTAATACACTGCTATGGAGGACTTGGGGAGATCTTGTCTTGNAGCTGCTTGTCTNCTA
CTATACCTGTCTGACACAATATCACCAGANCAAGCCATTANACAGCCTGCC

SEQ ID NO: 1781 ACTTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAA
GTATTGGAATTTACAAAAAGACATAGGACTTAACTGGAAAAATGAAAAAAGAAAAAGAAAA
AACTAAACAAAAAATCCCTCTAGGTAGTTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTT
GTGATTTTCAGAGCATAATGCTATGTTTTTTTGTCTTTTACTATGTTTTTTCGGATTTTAAAGTCCGTA
AGTGCATACAGTTTTCTCTAATTTTTAAACCCCTTCTCCTCCCATTTGACATTTGCAGTTGGAGA
ACACTTGAGTTGTGAAGGTTTGGGCATCCACCCAGAAAGTGGGAATTTGATTTTATCCTTCCGA
ACTGGAAGAACATTTTTATGAAGAATTTTGTCTANGAGAATATAACAGTGTTACCCAAGGNTGTG
TCTTTAANGGTGGNTCATTTTCTCTGACCTTTGTTACTCAAAAGNAAAAGTACCCTGCCNGGCG
GGCCGCTNTAAAANGGGCGAAATTTCCACCACACTGGGCGGGGCCG

SEQ ID NO: 1782 ACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTCATGTGTGATGAGAT
GGAGCGCTCTTTACATGATGCACCTTGTGTAGTGAAGAGAGTTTGGAGTCAAAATCTGTGGTTCC
CGGTGGGGGTGCTGTAGAAGCAGCCCTTTCCATATACCTTGAAACTATGCAACCAGCATGGGGT
CTCGGGAACAGCTTGCAGATTGCAGAGTTGCAAGATCACTTCTTGTATTCCCAATACACTAGCAG
TTAATGCTGCCAGGACTCCACAGATCTGGTTGCAAAATTAAGAGCTTTTCATAATGAGGCCCAGG
TTAACCCAGAACGTAAAAATCTAAATGGATTGGTCTTGATTTGAGCAATGGTAAACCTCGAGAC
AACAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAATTTGCAACAGA
AGCTGCAATCACCATTCTTGAATTGATGATCTTATTAATTAACATCCNANAAAGTAAAGATGATA
AACATTGGAAGTTATGAAGAATGCTGTTCACTCTNGAGCCCTTTAATGA

SEQ ID NO: 1783 ACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCA
CTCGCTTGGTGAAGTCACAACANAGTGCAGGCAAGAGTATGTGGGGATTGTCCGGCTGCACAA
GCTATTGAAGGGGGGACCCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTTGCCTTATTCCAGCG
ACCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTACGAGAGCAAAATGA
TTGAATACNATCCTGAAAGAAATANGAATCTTTGGGTGAGTTGTGAGGCTNGCACCTACATTC
GGACATTATGNGTGCACCNTTGGTTTTGNTATTGGGAGTNGGNGGTANATGCATGGANCTTCNG
NTGGTTTTTCTTNGAANCATTAGTGAAAANGGGCCCAACATGGT

SEQ ID NO: 1784 ACCTCATAGCCCTGTGTCATTTAGTGTTCAGCACTTTTGGGAACATCAGTTGG
TGAACTTTAAATTTTGTGCTGCTACTCACTGGGCACGGTGGCTCACACCTGTAATCCCANCACTTTG
GGAGGCCAAGGCAGGTGGGTCACTTGAGGCCAGGAGTTTGAACAGCCTGACCAACATGGCAA
AACCCCATCTCTACTAAAATACAAAATTAGCTGGGCATGATGGTGCACCTCTGTAATCCCAGCTA

CTTGGTAGGCTGAAGCATGAGAATTGCTTAAACCTGGGAGGCAGAGGTTGCAGTAAGCCAAGATC
 ATGCCACTGCACTCCAGCCTGGGCAACAGAGTAAGACTCTGTCTTAATAAAATAAGAAAATA
 AAACGGAACTGCAGTGCTAACAGTAATTTATACATTTTTTAAATGTTCTGAGTATGTTTTGACTGGG
 CTAGTGTAACAATATACTACCCTGAAAGTGCAGTTTTGATTGNTGGTGGTGTCTTTGGGTCANGA
 AAGTGAAGTGTGCCAAGAAGTATTTTTTCAGTGACATGAATGGATTCTCTGT

SEQ ID NO: 1785 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGTCAACAACTTCTATTTTTATTGACA
 GGAGTCCAAAATGAATACAAAAAAGCTTCCTTTGCATGTTATACTTACTTTCTTAAAAAGCTCC
 TGATAGAGTCAAGTAGACTGAAAACTAAGGATGTAGTTCANCTTTTANAGTGAACCTTTTTTAAAA
 AAGGTTTAATANCATAAGCCACCAGTNTCANAAAAACATACAGTCCCACTATCACTTTTANAGCTA
 GAACTTATCAAAAANAATTAGATCCTGCATTGATCTGCTAANATAGAGGTTAAAAATGGTTTAAGC
 CATTTAAAGCCATTTTTATAATCTGTCTGATAACTCTGGGCAATTAANAAAAAGGAAAATTCCAAAA
 CGTAGCCCTCTATATCATGTGGAATGTGAGAGAATGCCAACTTATGACCAAGATANGTAAAAATA
 AAAGTTTAAATCTATGAGNTGGAGCTGNTGNATCACTGCNAAATGTCAACCAACAGNGCTTATCA
 AAGAGATTNTCANCTTGAGCGATGGTTACTTAACTTGNNGCGATGT

SEQ ID NO: 1786 ACTATGAACACCAGAACAGAAGAGATTTTTTACTATTATGACACAAACACAG
 GGAAAGAGGGCAAACCTAGACATTGTAATGCATAAGATGCAGGAAAAAGTGCAGAGCATTAACTA
 TAACCTTTTACCAGAACTTTATGTCTATAACGATGGTTACCTTCTGAATTATGATCTTTCTGTC
 TTGCAGAAGCCCCAGTAAGCTGTTTAGGAGTTAGGGTGAAAGAGAAAAATGTTTGTTGAAAAAATA
 GTCTTCTCCACTTACTTAGATATCTGCAGGGGTGTCTAAAAGTGTGTTTCATTTTGCAGCAATGTTTA
 GGTGCATAGTTCTACCACACTAGAGATCTAGGACATTTGTCTTGATTGGTGAGTTCTCTGGGAA
 TCATCTGCCTCTTCAGGCGCATTTTGCAATAAAGTCTGTCTAGGGTGGGATTGTGAGAGGTCTAGG
 GGCAGTGTGGGCCTAGTGAAGCCTACTGTGAGGAGGCTTCACTAGAAGCCTTAAATTAGGAATTA
 AGGAACTTAAACTCAGTATGGCGTCTAAGGATTCTTTGGACCT

SEQ ID NO: 1787 ACGCGGGATAACCATGCACACTACTATAACCACCCTAACCTTAACCTCCCTA
 ATTCCCCCATCCTTACCACCCTCGTTAACCTTAACAAAAAACTCATACCCCCATTATGTAAAA
 TCCATAGTCGCATCCACCTTATTATCAGTCTCTTCCCCACAACAATATTCATGTGCCTAGACCAAG
 AAGTTATTATCTCGAACTGACACTGAGCCACAACCCAAACAACCCAGCTCTCCCTAAGCTTCAAAC
 TAGACTACTTCTCCATAATATTCATCCCTGTAGCATTGTTCTGTTACATGGTCCATCAGAAATCTC
 ACTGTGATATATAAACTCAGACCCAAACATTAATCAGTTCTTCAAATATCTACTCATCTTCTTAATT
 ACCATACTAATCTTTAGTTACCGCTAACCAACCTATTCCAAGTTCANTCGGCTGAAAGGGCGGTA
 NGGAATTATATCCTTCTTGCTCATCAGTTGATGATACCGCCNGAGCAGATGCCAANACAAGCAA
 GCCNNTCAAGGCCAATCCTAATACCAACCCGNGATCG

SEQ ID NO: 1788 ACAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAATCATGAAATTC
 GTTCTGAAAAACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATTCC
 TAAGAGTAAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACG
 TCATTTTATACCACCAACCGGATGACAAGTAAAAAACAGAGGCTTTTGTCTTTCTTGAATATGAAG
 ATCACAACACAGCTGCCCAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAAT
 GTTGAACTGTTGAATGGGCTGATCCTATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAA
 AGTGTCTGTTGCACGCAACCTTGCCAATACTGTAAACAGAAGAGATTTTANAAAAGGCATTTAGTCA
 GTTTGGGAACTGGAACGAGTGAAGAAAGTTNAAAGATTATGCCGTCATTCTTTTGATGAACCG
 ANATGGTGTCTGCAANGCTATTGGAAGAAATGAATTGGGCAAAAGACTT

SEQ ID NO: 1789 ACCAAAACAGACATATAGACCAATGGAACAGAACAGAGCCCTCAGAAATAA
 CACCGCACATCTACAACCATCTGGTCTTCGACAAACCTGACAAAAACAAGCAATGGAGAAAGGAT
 TCCCTATTTAATAAATGGTGCTGGGAAAACTGGCTAGCCATACGCAGAAAACTGAAACTGGATCC
 TTTCTTACACCTTAAACAAAATACCATTGACCTAGCAATCCCATTAAGGTTATATACCCAAAG
 GATTATAAATCATTCTACTATAAAGACACACACAGTATGTTTATTGCGGCACTGTAAACAATAGC
 AAAGACTTGGAACCAACCCAAATGCCATCAATGATAGGCTGGATAAAGAAAATGTGGCACATAT
 ACACCATGGAATACTAAGCAGCCATAAAAAAGGATGAGTTTCATGTCATTTGCAGGGACATGGATG
 AAGCTGGAACCATCATTCTCAGCAAACTAACACAAGAACAGAAAACCAACACCTCATGTTTTTC
 ACTCATAAGTGGGAGTTTAACAATGAGAACACATGGACACAGGGAGGGGAACA

SEQ ID NO: 1790 ACTTGCCTCATAGCTGGTGAAGGATTCTTCTGAACCCCCACCCTACCCCTAA
 AGGTATCTGTGGTATIGGCAGGATAGGGAATATGCATTACAGAAATGCAGGATTTGACTCTGGGC
 ATGAAAGATGGCAGCAGCCCTAGGGTGACCGTGAACCTATAGACCTCGCAGTCTTTTCGGTGAAAG
 AAGAGACAAGTTGACCCTCTGCCATTTCTTATGGACCTCACCCATCATGCCAGCAGGGTCATAG
 GACCTTGGCCTTGTTCCAAATCATCTGGGACATGACCCACTCCCCACTGTCACTGTGTTGAAAACA
 GAGACTTGTGTGTGGCCCCAACCCATAAGGAAACCAGGCTTTAGGCCAGGGGAGCAGTGG

AGGTAAGGGCTCCACCCCATCTTAAGCTCTGTCTTCCGNGGCACAAATTCGAAGTTCTTTGACGTT
AGTAATTGTTAAAGGAATGGCAAACCTGTTTTGTTTTGAANGATCTTCTACAGTCTGGTCNTACC
CATGTTTCCTTAGCAACCCTGAGATGATTTTCTTTCCATTTTACCAAAAGC

SEQ ID NO: 1791 ACTATTAAGAAAAAGAAGATTGATTCTTAACCTACTGAATTGTGCAGATACA
AAAGTGCTTAGCATGACAAAATTACCAAAATAAAAAACATTTTAGAGGTTATTTGGTTCTAGCAATA
TTAACTATTCTGTATTTCTGGATAATTTAACATTTGTATTTTAAATTTTATATAAATTTCTTTTAAAC
AAGTTTAAAAAGCACACGAAAAATAGTTCAAACCTATATATAATCTGTTATTTTCATCCTGGTTA
GCTAATCACAATAAAGTACAGCANAACAATGCTTGAACATTCAGTTCTACTAAAAAACAGTATTTG
AGTAGATCCCATCACCTTACCCATTGTTTGGCTATGTTAGACCCTAAAACAGGCTGCCGACAGATC
GGACAAGTGCAATTCTCTGAGAGCCATCCGGTCAATACAATTGAATGTGAAATTCATGCATGCAA
GGGTAATTGCCTGAGCTTGTTCGAAGTTACCATAGTCACTAAATACCAACACCTACAGATTTTA
CCTAAGTTCACCTTATCAATTACTGGNATGCTCATANTGGCTNNGNGGAAAA

SEQ ID NO: 1792 ACAAATTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTA
CCTGCCTGAAGACATAGCTGGTGGAGTTGAGATCTATAATGGAGATCGTAAAATAAAGTTTCCA
ACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGCAGATGATGCCAGAAGTCCGGGGAGCCTTG
TTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGAGGTGGAGCTCGTCGTCAGCT
CTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTAGCTTCCTCTTCA
CTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCTCTGTCACTCATGCCTTGCCTAATTGTTT
ACAATGGTGGAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAG
TGTCCAACCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGGTTGCATGGGCTTNCCTTGGGT
CTCCACTCTTCGTCTGGCCTAAAAGGTGATGTATTTGGTGTTTGGCCC

SEQ ID NO: 1793 ACCCACAGAGACTGAGAGTTGGTGCTGGTGGTGTGGTGGCAGATGATATTA
CCTGAAGAAGGGACGAATGGGTGCTGGGCAGGACAAAGCATCAGCTGTCCAGTTCAGGCCTCTCC
TCTTTCCCTGGTGTCTTCATTTTCTCCTCCGTCTCCCTGCTGTCCCTTACCCTCTCCCAATCTCTCATT
CTCCTGGTCTTGGGAGTTGCCTTCTGAGGATACTCCACTGGGGGTACC

SEQ ID NO: 1794 ACTTGAGTCAAAGACGACATTTAGATTCTTCAGCTTTGAAGCATTTAGTAACA
TCATTGTCTAGTCAGGCAGAGGAAAGAAATTCAAAGCACTTTCTTTTCTTCTGTCAAGTTCTTTG
CAGTAAGATCCATCTTCTCACGTGAGAAATCATTAAATAGGGAGACCTTCAACAACTTCCAGGTCT
TATTCTTGATTACAACAGGGAATGAGTAGAGCAGATCATCAGGAACACCATTAGGAGTTGCCATCA
GAGATAACACCCATGGACACAACTCTCCCTCTGGGGTTCCAAACCAGATGTCCCTGACGTGGTC
ACAGATGGCTTTTGCAGCAGACATGGCACTGGATAGTTTTCGAGCCTTGATGACAGCAGCGCCAC
GCTGCTGCACAGTCGTGACAAATTCTCCCTTGAGCCAGCTGTCATCTTTCAGAGCTTCATAAACAC
CAACTTCTTTTCTTGCATTTTACCTTGGCATGGTTGACATCTGGATACTGAGTCGAGGAATGGTT
TCCCCAGATAATGACATTCTTTACATCATTAGCAGTCACACCAAGTT

SEQ ID NO: 1795 ACATTTCAATAGCACGTTTCATCCTCCTCATTAAACTCGTCTTCATGATCCTCCA
GCTCTTCCAAAGTCATATCTTCATATGTTTTACCACTGACTGCTGGAGGATGCGCTGCTCCTCTTC
TGCCCTCCTTTCGAATTCCTTCAGACTTTCTTGGGGGGTAAGATACCTTTTTCGNAAGATGTCA
TTCCATTAGTGCTGCGTTGGGGTCTGTCATCTTGTTCAGTTTCAGTTGCTCAAACCAGCTGTGC
CGNCCCCGACCCTCANCTTTCTTTTGTCCCCGNGTT

SEQ ID NO: 1796 ACTTTTTTTTTTTTTTTTTTTTTTTTGGCTGAAAACCTTTTTATTGCTCTTTTGGAT
ANAAACGGGAATTTATTTGCCAGGAAGGATGATCCCATCATACTTNTGCTGGAACGAGCGCATGG
CCTCCTCTTTGCTGATTCTGNGTTTGGCCCCAATGCAGCCTGTCCTGCGCTTNTGTCTGCGATGCT
GAAACCTGGCCTACCCAGCACCATANAAAGTCCAGGCCGTANATACCAATGCTTGGGTTCATATT
TGATACCCANATCGATGTGTTCCCTGGATCCCAAAACCAAAGTTTCCAGTATCTGAGAAGTTGTTTT
TTCTTAACTCATACTCCCGCACCTTTANACCCTTCTCCAANATTTCTTCTGCCTTGGCCCCCTCGAAC
TGTGCAGNGGACAAGCAATCTTTTCAATTTCTCCGGATGCCAAAGGATCTGACAGGTGTATCTAGCT
TTGGAACACAGGGGTCTGCCCTGTGAGCTGCTCCAACACCTTGGCTGCTCGNGTCAGTCTGTNT
NCACTCTCCCCAACACAGATNTTGANACANAAGTTTGGCGGA

SEQ ID NO: 1797 ACGCGGGAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCC
TGACGCTGAGCAAAGCAGACTACGAGAAACACAACTCTACGCCTGCGAAGTCACCCATCAGGGC
CTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAGAGGGAGAAGTGCCCCACCT
GCTCCTCAGTTCCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTCCACAGGGGACCTA
CCCCTATTGCGGTCTCCAGCTCATCTTTCACCTCACCCCTCCTCCTCCTTGGCTTAATTATGCT
AATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTGCAAAAAAAAAA

SEQ ID NO: 1798 ACAAAAGGAATGTTTCCTTTATAAATCACAGAAGAAAATGACAATATCTGTT
GGATATTTGATATAATTTAATGGTGTTATAAAACCTTTAAGAGGATTCATGGTGAATATATGTGAT
AACATCTTTATACTTTGAAAAATGTTCCACTTACCCTTCAGATATTTGTTGTAAGTTAATTCAATTC
TTAATACTTTAATTTTGTCTCCAACAAGGGCTTTATGTTGCTGGTAAGAGAATTTATTTACTAAATGC
ACTATGTATAAAGTGAAAGATAGTTTACTTATCTGACTTTGATATTAGATGGCTGACATTAGTGCA
CATAATGCAGAGTTTAACTTGATTCTTCAACAGAGTCCAGATTTAAATGTCTACTTAGTTAATTA
GTTAGCTGATATTCTTCCACAATTAATATATTTCAATTTCCCATCAGTATATCACTTTAAATTTTATG
TTTTTCTAANGAAACTTTCCACAGAATTTTAAACAACTGATGCATCCATACTCANGGTGTAGGGAG
AATACTTTGCATTTAAAAACCCCTGTCCACCTGTCACCCAGCACAA

SEQ ID NO: 1799 ACGGATCTTACTTCCTGGCTCCACGCGTCCTGCTGGTGATCCTGCCGGGGGA
GTGGGGTGTGCTGCACAGGCTTTGGAGTCCTGTGGGCGGAATTCCAGTCTCCGTTTTCCACTTGC
TGGCTTTGGAACCTAGGGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCAGAGAAGA
AAAAGAAGAAANAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTAAACAATGATGATTAC
TTTGCTGATGTTTNTCCTTTAAGAGCTCATCCCCCTCTAAGAGTGTGGCCCATGGGCAGGCACCTG
ANATGCCTNTAGTGAANAAAAAGANGAAGAAANAGAAGGGTGTCCANCACTTTGCGAGGAGCA
TGTAGANCTGAGACCACGCTGNCCTGCTATACGGACAGAAAAANTTCAACCCAGCCCTNNAGGAA
ACCACGGTGTGTTNGGCCNCTTGAGTTCCTTCANTGGGGGAAAAANNAANAATAANTNACCT
NTANCCCATTTGGCCCATGCCTNTTNGGNGGAAAAACCTCCNCAGANCCCTNAACNNGGNGAG
GGAGGA

SEQ ID NO: 1800 ACTTCACCCAGGCACTCCAGGCCGGGACCGTGTGGGTAAACACCTACAACAT
CGTCACCTGCCACACGCCATTTGGAGGGTTAAGGAATCTGGAACGGGAGGAGCTGGGTGAGG
ATGGGCTTAAGGCCTACACAGAGGTAAAGACGGTCACCATCAAGGTTCTCAGAAGAAGCTCGTAA
GAGCAGCTGTTCAGGGAGGCCAGTCACAGTCCAGCAATTCCACAACCACCTTGACGAATGCTTGC
CAAGCTGTTTAAAGCCAAGAACACCCCTTTCTTTGTTCCAAATTAACCTTTAGAAGAAACCCCA
AATAAGCAATTCAATCAAGGCTGTTCTATTTAAATCAGAGATGGGGACCAGGCTCAGAGTTCTA
CCTATCTAACCCCAACCCACAGCCCCCTTGGTGGCCCATGAGTTGCTTCATGAAATCTTAGGAGTC
TCTGGAGGACAGATTAAAAACAGTGATCTGTAATTTGTAGCTCTTCTGCTGATCCAAGGACTTT
CCCATGGGTGCGCTTGGTGGTTAAGTGGATCGACTCAACTTAAAAACACAAG

SEQ ID NO: 1801 ACTTTTATATATACTATCTATGAAGAATTCATAAAGCATGAATCACCTTATA
ATGAGAAGCTAAAAATGTATCAAAACGAACATAAGTATAGGTAATCCACATCAAAACATACTACAT
CTTCCAAGTCTAGAACATACTGGTATAAACTGTATTACAACCCAGATTAGTTTGAAATCTTGTT
TCAAAACATTGCTCAGTATTAAGTCTCAGTAGACAAATAATAGGACCACATGAGAACTGTTCCG
CAGGTGGCTGAGGAAACCTTAACTTCCAAAGGCTCAAAGTGGTCCTCCAGAGACTGTTACACTCC
CTTAGGTATTTATTTAGGGAAAGGACACTATTAAGGGACACTTTTGAGTATAAAGACAGGTGAACT
CACAAAGTATAGGCAGATACATGCTTGATTTTATCTTCTAATCTACAGATAATACATTAGAATAAA
AATGTAATGAATTCTACACCTTTCAAAAGGGAAAAAAGTGAAGTAACAATAAAGGTATTAATG
GATAATGGATCAGATGAAATAATTTAAATGAAGCTTGGCTGTGTCTGAAANA

SEQ ID NO: 1802 ACCCATTTGGATCTCTAGCATCAAGAACTTGAACCTACAACATCTGATGAATCTA
TCACCTTGTAGAGCTCACCCCATATTCTTTTGGACTGTCCCTTTTATAGATCTCTTCTTGAGCTTCA
TTTCTCACACCAAGTGTCTTCAGTTACCAAATCACGATCCTTGCCCTGGTTCATAGCTCTCAGTGGACA
TTTCAGCATTTTCGATAAGAGACTGCATATCACTTGCAAATAAGTTTGGTCGTTTCTCTGTGACTT
AGGGCCAAATGTAGTTTCAAACTTTTCACTATCAAGAATGTGCACCTTCAAGTTATGAGGCTGGAT
TCGATCATGGAGAGGAGACATTGGTAACTTGCTTTGCTTCATGACAACCTTTGATGGATCCTTCAT
AACTGTATCCATTTCCTCTTGAAATTTTGTAAATGATGACTGCTTAATCACACGTTGTTTCCAAAC
CATTTAATATTTGGCTCTACTCTTGCCCTGTGCCAGAAGCCACCGTTGATTGATATTGCAGGGG
GTTTAATTATTTTACCCACGACTGGTCCTGCCTCCTTTTGCC

SEQ ID NO: 1803 ACGCGGGATTGCAGCATTATTTTCAAGTTCAAAATGAACCTATATGCCTGGCACC
GCCAGCCTCATCGAGGACATTGACAAAAAGCACTTGGTTCTGCTTCGAGATGGAAGGACACTTAT
AGGCTTTTAAAGAAGCATTGATCAATTTGCAAACCTTAGTGCTACATCAGACTGTGGAGCGTATTCA
TGTGGGCAAAAAATACGGTGATATTCCTCGAGGGATTTTGTGGTCAGAGGAGAAAAATGTGGTCC
TACTAGGAGAAATAGACTTGAAAAAGGAGAGTGACACACCCCTCCAGCAAGTATCCATTGAAGAA
ATTCTAGAAGAACAAAGGGTGGAAACAGCAGACCAAGCTGGAAGCAGAGAAGTTGAAAGTGCAGG
CCCTGAAGGACCGAGGTCTTTCCATTCTCTGAGCAGATACTCTTGATGAGTACC

SEQ ID NO: 1804 ACTCAGTCTGAAAAGCTAACAATACTGCATCTAACCCTCAATGGACCTTA
CAAAAAGCAAAGACCCACCAGGAGAGAAACCAGCCCAAAATGAAGGTGCACAGAACTCTGCAAC
GTTTAGTGCCAGTAAGCTGTTACAAAATTTAGCACAAATGTGGAATGCAGTCATCCATGTCAAGTGA

AGAGCAGAGACCCAGCAAACAGCTGTAACTGGAAACACAGATAAACCGATAGGTATGATTGAT
 AGATTAAATAGCCCTTTGCTCTCAAATAAAACAAATGCAGTTGAAGAAAATAAAGCATTAGTAG
 TCAACCAACAGGTCCTGAACCAGGGCTTTCTGGTTCTGAAATAGAAAATCTGCTTGAAAGACGTA
 CCTCGGCCGCGACCACGCTAAGGGCG

SEQ ID NO: 1805 ACAGAGTCGCATCCATTCTTTTTGAACAACATGTAGCATGTCTGCAACAGTGG
 ATGATTACAAACCATATACAGTCCCCATAATCCTGTATCTGTGTAGGAAGTGTGAAAGACTGAA
 AGCTATGGCAAAGATTGCCATGACAAGTGAGCTGGGCCAGCTTGCTAGATAAAATTCATTCCTCCCC
 CAAAAGAGCGATCCCAAGTTGCCAATCAGCGTGTGGCAACCATGAGACAGATTGTATCTGGATGT
 GCCCAACCAACAGCTTCAACAGCTATTGCAAGGTGCGCCAAAGGCATCTTGTATCCCTCACACG
 AATCTCACTTCTGTGAATTTGCAGGGAGGCAGAGCTGGTATTTCTCCTTTGTGTGTGCATAAAGA
 GTCACCGAAATGAACTTTGCTAAGTCAAGCAATTCATCATGGGAAACACCTCCAGCAGCAGCAA
 GCACTATTCTTGGCCCCCTTATAATTGTGGTGGTTATATNATNCACTAAGTCCTTACGACTTATAGAT
 TTGATATTTTCAGTTGGNNCCAAAATTGGTCCGTCCAAGTGCAGTATTTTGA

SEQ ID NO: 1806 ACCTGTTGTACGCGTCCTGTTTGGCCTGAGCCGCCTGGCTGTAGAGAAGGGC
 TACATCCCTGAACCCAGGTGGGACCCGTTCCCGCTACTCACTGCGGTGGTGTGGGGGCTGGTGCTG
 TGGCTCTTTGAGTATCACCGATCCACCCTGCAGCCCTCGCTGCAGTCTCCATGACCTACCTCTATG
 AGGACAGCAATGTATGGCACGACATCTCAGACTTCTCATCTATAACAAGAGCCGTCCCTCCAATT
 AATGCAGCCCTGAGGTGTCTGGCTGTGGCTCAAGATTTGGCCCCATGCAGACCCCTCCAAAGGAT
 ACTGCCTTCTCAAGATCATAGCCCTCANACTCCAACCTGGTGTATCCCAGGGTTCCGTTTGCTGAA
 GTAAAAACACTGATTTTAAATCCCAAGTGGGT

SEQ ID NO: 1807 ACGCGGGGCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGGCTCG
 GGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTAG
 GAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACGCTTACAAGATGGACAGG
 GATGATAATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAAATAGAATGTG
 GACCTAAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTA
 AATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATA
 TAGCATCAAAGTTGTCTGCAAGAGCTTCGGCGCCTAATGATGTCTAAAGAAAATATGAAACTCC
 CTCAGCCCCGCGGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAAAACACAGGCCCTTTCCC
 TTCCCCCAATTGATTATAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTTA

SEQ ID NO: 1808 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGGNGGCCACCACATCTTTATTGCATACT
 CAGGNGAATAACTTATTATACAATGAACACTCCTCCATTAGGAGACCATGCCCCTTACAGAATG
 CAGCCGTAAATGCGGTAAATCTATTTACAGAGGTTGGGGTGCAAGATGANANAAGTATCAGCCCC
 AGGAATTTGAAGTGAGAATGATCTACAAATCTCCTGACAAGGAGCAACCGGGCTTGTGCTANTG
 AGGTCTGAAAGAATTCCTGGCANAGCGTAGGGGGAGATTANATCTCGGAATTGACAGCAAGTTTG
 GGGACAGTGCAAGAAGAGAGGGGTGACCTGTGAATTGGTGCTGGGGAGCTGCTGAGGCCCAATG
 TGAGGCAACACTAGAGAGATGAGTAAATTTAGGGNGATCTTTANCCTCTCCTACCCAGGCCAAAAA
 GGGTTGGGGAGCGGGGTGTCAACAAGTTTGGCTTCCAGTGATGATTCAAACCANTGGGCTGAGA
 NAGGCTTTTGCTTTTTTTGCTCAAAATATGCAGGTCTGCTCTGGGCCACANANC

SEQ ID NO: 1809 ACCAAGTCCAGGTATAACATTCTTATTGGAAGCCATACTTATATTTTCTTGTA
 AAGTGCTTTTGAATTAATAAAATATTAGCATAATTGTGTATAGTCAGTTGAACCCACTGTTACCAT
 TGTTCTTATCCCATGGGAAGCAGTTGGTTACACGATTCTTATTTTATAAGAAACAGCTGAGAGGCA
 CTATGGATTAAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAATGATAGTTAACCCATTTT
 TTTTTTTTTTAGGCATAGAAGCCAGTTCAGGGTCCATAATATTTAGTGACCAACATTTTAAAGTATA
 GCAGCAACCTGGTTCTTAAACACAAAGTAAGTTGCCATTAAACAAATGGCTTTTATCTTTAGCATG
 AAAACTTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAGGNGTTGCATGGGAATTCTAA
 GCTGATCCATCATGATGTAAAAGTTCACAATATGGGTCAAATGTAACAGTGCAGAATTGAATATG
 GAGGCATGCATAACCCCTCCTCTTAAAAAATGGCAGGGGNTGNA

SEQ ID NO: 1810 AAACATGATTTTGCCCTAAAGAACAGCTGAACTGTTGAGAGAAGCAAGGGCT
 TCCTAGCGGCCTTCCAGTGTAGCAGATAATATTACCCTGTGTAAACAGAGTATTACAGAGTTTGCA
 TTTTCCAAGTCTGTAAGTCTAACCATAAAACAAAACAAAGACAAACCCAAACATTAAGATATACTG
 ACAATCTTGTGTTCCCATATATGATAGAATAGTTCTCATACACTGTAAAGATTGATTTACTTTTTATT
 AGGAGCACTTCTCAGGTTTTTGGCATTTCACATGTCTACACTCAGTGTCCATTGGCTCCTTCTGAGA
 GTATCCTTGAAGGTTCCGTAAATTTTGCAGTGAACAAGTAAAAAAGGGCTGGTGTAGGTACC

SEQ ID NO: 1811 ACTTTCCTTCATCGAATGATTATTTGCCTGGAGGAAGAAGTTCTTCCGTTTCAT
 TCCATCTGCTTCAGAACATATGCTCAAAGATTGTGAAGCAAAAGATCTCCAGGAGTTCATTCTCTCT

TATCAACCAGATTACGGCCAAATTCAAGATACAGGTATCCCCGTTTTTACAACAGATGTTTCATGCC
CCTGCTTCATGCAATTTTTGAAGTGCTGCTCCGGCCAGCAGAANAAAATGACCAGTCTGCTGCTTT
AGAGAAGCAGATGTTGCGGAGGAGTTACTTTGCTTTTCTGCAAACAGTCNCAGGCAGTGGGATGA
GCGAAGTTATANCAAATCAAGGTGCANAGAATGTAGAAAAGAGTGTTGGTTACTGTNTCCAANGAG
CNNTTGAATATTCATATCCAATTTGTGAGAAAACNTGTTTATCATCCTCTCAAAGTTGGNAGAACT
NTGGGGAGGTAANATGGACCANTGGGATTTGCTGATTTTGTATAAACACATTGCCCCGATGTTTC
CTACACCTTTAAACAAACCTTTGCCTGGCNGATCACAAACAGTTTGGCTTTTTTTGA

SEQ ID NO: 1812 ACACAGTTTCAGAAAAAACNAGGAATGAATACTATTGATGNCTGGTGGCTTT
TNGATGATGGAGGNNNGACCTTNTTGATACCTTACCTTCTGACGACCAAGAAAAANTGGAAAGAC
TGTAAGATCAGAGNATTCATTGGTGGAAAGATAAACTGAATAGACCATGACCGGAGAGCGATGGC
TNCTTTGCTTANAAGATCCGGATANACTTTTTTGATTTCATGGTNCNNGANATATNAGATCCAANA
CCAAAGAAAGANAATNTTATAGGCTTTTNGNGNAAAATTATTGAGCCATACAGACNTCATTGNAG
ATGATAAAGAGCATNGATATNTGNAGTTTNAATGAAANGAAGATGAACCANTGGGCGAATAAC
AANATAAATGNGCTTTGAACTTTTTTAAGACCAANGACTTNCCGGGCGAGATTTAGGGTTAAATG
NGTTNATTTNAAGGG

SEQ ID NO: 1813 ACCAACAGAAAGCAGGCCAGGCTCCCACTCTCATCATCTATGGTGCCTCCAC
CAGGGCCACTGATGTCCAGCCAGGTTCACTGCCAGTGGGTCTGCGACAGAGTTCACTCTTATCAT
CAGCAGCCTGCAGCCTGACGATTCTGCAGTTTATTATTGTGACAGTATAAAGACTGGCCTCTGAC
TTTCGGCCCCGGGACCAAGGTGGAATCCGGCGAAGTGTGGCTGCACCATCTGTCTTCATCTTCCC
GCCATCTGATGAGCAGNTGAAATCTGGACTGCCCTCTGTTGTGTGCCTGCTGAATAACTTNATCCCA
GGGAGGCCAAAGTNCCTTGCCGGGCGGNCNNTTNAAGGGTG

SEQ ID NO: 1814 ACGCGGGGGTTTATCGTGTGAGCACACCATATATTTACAGTAGGAATAGACG
TAGACACACGAGCATATTTACCTCCGCTACCATAATCATCGCTATCCCCACCGCGTCAAAGTAT
TTAGCTGACTCGCCACACTCCACGGAAGCAATATGAAATGATCTGCTGCAGTGTCTGAGCCCTAG
GATTCATCTTTCTTTTACCGTAGGTGGCCTGACTGGCATTGTATTAGCAAACCTCATCACTAGACAT
CGTACCTNGGCCGCGACCAAGGCG

SEQ ID NO: 1815 ACAGGCCCTTTGATGGCTTGGGTTACAGACAACCTCATAGCTGGTGCACCAC
ACACACGAGATAAAACAGGAAGCCTAAAAACCCCAAGCCACACCAAGAAAAATGAGAGAGGGG
AGGGCGGGGTAACAATGCAGCATCCCGCGGAGGGAACCTTAATGCACAAGGAGGGGAACAGAGG
GTGGAAGGCAAGCCAGCTTCGTCTTCGCGCGCAGCTGCTGTGTGGTGGTTCAGGGGACTGAGTTC
AACAGGTCCTTCAGGAAGCTCTCTGGATCGGTGATTTCTGATAAAAGACCGGCCACATCGAGGAA
CTCTGAGAAGGTCTTCACCGGCATGAACTCCTCTGGAAGGTTTTCAGGGCTTTGTGCGCAGCTTCG
TAGATGGGCATGTCGTTGTGGCGGATGTACC

SEQ ID NO: 1816 ACTTCAAGTTAAAGTGAATAACCACTTAAAAAATGTCCATGATGGAATATTC
CCCTATCTCTAGAATTTTAAGTGCTTTGTAAATGGGAACCTGCCTCTTTCCTGTTGTTGTTAATGAAAA
TGTCAGAAACCAAGTTATGTGAATGATCTCTGTAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTA
ATGGTTCGCTTACTTTGAGTGATCCTCCAACCTTCAATTTGATGCTAAATAGGAGATACCAGGTTGAA
AGACCTTCTCCAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTCTCATTCTCTGAAA
GAAACAGTTAACTTTTCAAGAGATGGGCTTGTCTTCTGCCAATGAGGTCTGAAATGGAGGCCTTC
TGCTGGATAAAATGAGGTTCAACTGTTGATTGCAGGAATAAGGCCTTAATATGTAAACCTCAGTGT
CATTTATGAAAAGAGGGGACCAGAAGCCAAAGACTTAGTATATTTTCTTTTCTGCCCCTTCCCC
ATAACCTCCATTTAGTCTTTGTTATTTTGTCTTCCAAGCACATT

SEQ ID NO: 1817 ACTTNTTTTTTTTTTTTTTTTTTTTTTCTGGACAGGAAGTANAATTTATTGGTGA
GTATTAANAGGGGGGCGAGCACATTGGAAGCCCTCATGAGTGCAGGGCCCGCCACTTGTCCANAGG
GCCACGACTGGGGATGTACTCACATTCATTTGTCACATATTTTCAAGGCCCTCATACACCCCTTTTAA
ATTGNCTAACTCCTATCCCAGTTTNTTTTTATAGTCTAAAAACAAGGAATCACCCAAGTAANATAC
TCCTTCANAGCACTGCTGAAAATGGATCAAACNTGGAGATCCCCAGATCCCTGTTCTCAAGTGTT
AAAAAAATTTTATATTAGCACATAGAATACCCTTAGATATATNTGNTNTGTTCTAAAGAGTTTGN
GTTTCCCCCTTTTTGATGATGTCTTCAATTTTTTCTGAGACCTTTCCTGTATANNCATTTGGTCTATT
GCTTTTAACTTCTTTTGATACTCCAGTGGCAAACCATTTNTTTGCCCATGCAAANATCTTTTTTA
CTGGGGGGATGGGGGAGCCTTCTATTGNCATAAATACTTCNACAGTTAT

SEQ ID NO: 1818 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCCGGAATTTCTTTATTTTTTACAAA
TTAANACTATGCANATTTTCATNTATTTCTGAATCAAAAACACCTTTGTCTTCACAGTATGAGTTAN
AATGCAGCCTGANCTGAAAATCAAGAAACTAGAAAAGAAAGNGGTAGANATAACTNTNTTAAAA
ATCTGTTAGGTATTTNTTTTAAAGTAGGGGGTTTTTTTTTTTTCTTTCTTTTTTTTTTNAANATCTT

GGCATTCTNNGGCACTGTTTCTAAAGAAAACTCCNTTTTCCCAGCAAAAANCACANAAAGGNGGA
GTTTGGNTTCAAAAANATGTTAACTCAAAATTTTAGGCCTAGCAGAAAATCACCAAATTTNTGGAG
AGTTAACAGGGGTTAACAGGAAGGAAGTGCCTTTATTAANTTCTCAAGCCAGAGGCTGGAGGCAG
CAGCTNATTNAGAGGACAGCATCCTCAGGTGAAAGGNGCCATTTCGGGGTGGCATGCACTCCANGA
ATAAAACACTTNAAAACAAATGATTTCGT

SEQ ID NO: 1819 ACGCGGGGACTCTGCGCTTCACCATGGCTTTTCATTGCCAAGTCCTTCTATGAC
CTCANTGCCATCAGCCTGGATGGGGAGAAGGTANATTTCAATACGTTCCGGGGCAGGGCCGTGCT
GATTGAGAATGTGGCTTCNCTCTGAGGCACAACCACCCGGGACTTCACCCAGCTCAACGAGCTGC
AATGCCGCTTTCCANGCGCTGGCGGNCCNTGGCTTCCCTTGCAACCAATTTGGACATCAGGAGA
ACTGTCAGAATGAGNGAGATCCTGAACAGCTCAAGCATGTCTCCTGNGGGTGGATCCANCCCAC
CTTCAACCCTTGTCAAAAATGTGNGGTGAATGGNAGAACGAGCATCCTGCTTCCCTACCTGAAGG
ACAANCTCCCNTACCCTTATGATGACCCATTTTCCCTCATGACCGATCCCAAGCTCATCTTGGGA
CCCTGTGCCCGTCANATNTGGCTGGACTTNAGAANTCTATAGGGCCGAGGGAGAGCTTCGACCTC
ANNCGACNTTCTACATTAATTNGCTGGCTAACCTCTANAGTG

SEQ ID NO: 1820 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCTATGNAACTGTCCCTCATCCTTCACCA
TCCCACCATANAAAGTTAACTTTCTCCCAAGTAGCCAATTTTCACTTGGTGANAGTTGANCTAANA
TTTGAAAGATGGNGATTAAAAAATCAAACTGTTAAATAGGAATTTGGANANACAGGCTT
TTGTCATTTTCCAATGCACTTGGGAGGCNCAANATTTCNATTGTAAAAGGGAAACCNCGGAAA
GCATANTGATAAAGTTNTATTTTCAAGACAAANAGGNGAGTTTATCCTCATGCTNCAATTTCTACT
CTGAAATAATTTCTATGCCTCAGTGAACATGAGAGGATATTNTNAGTAGATAAGGGCNTCAACA
TTTGGTTGTGAACACACACTTTTGCTTAATTNGTCTATTTAAATTAGAAAGGGAGGGGAAAAATAAT
CTAAAAATCCCAATAAGTCTGGAATCAATATTTGAACTCCCCANATCAAAAGATTTCTAGAATC
TGCTCATAGGNGAATCACTACAGCTTTGCTTTNNCTTGCAATGGCACCCAANG

SEQ ID NO: 1821 CGATCGAAGGGACTATGTCTTCATTGAATTTTGTGTTGAAGACAGTAAGGAT
GTTAATGTAAATTTTGAAAAATCCAACTTACATTCAGTTGTCTCGGAGGAAGTGATAATTTTAAAG
CATTTAAATGAAATTGATCTTTTTCACTGTATTGATCCAAATGATTCCAAGCATAAAAGAACGGAG
AGATCAATTTTATGTTGTTTACGAAAAGGAGATCTGGCCAGTCATGGCCAGGTTAACAAAAGA
AAGGGCAAAGCTTAATTGGCTTAGTGTGCTTCAATAATTGAAAGACTGGGAAGATGATTCAGA
TGAAGACATGTCTAATTTTGATCGTTTCTCTGAGATGATGAACAACATGGGTGGTGATGAGGATGT
AGATTTACCAGAAGTAGATGGAGCAGATGATGATTACAAAGACAGTGATGATGAAAAAATGCCA
GATCTGGAGTAAGGAATATTGTATCCCTGGATTTTGAGAAAGAAAATAACTTCTCTGCAAGATTT
CATAATTGAGAGAATCCTGAGTTGATAGCTCTAANGCAGATTCTGATTTGC

SEQ ID NO: 1822 ACCTTTGAATCTCTGTTACCTGAGGAAACAGCATTCTCAGCTTCTTGGTGCTC
GTCTGGTGGAGAAGGAACTTTTGCACTAGCTCTGAGATCCTGGCTTTCTGCTTTTCATGATTCTGG
AATTCAGTGGGATTACTTATTTTTATCTCTGAATGATCTGCTGTGAGTCAGGGTCCACACGGACA
GTCTTGACCTTCTCCTTGTTTTGGTGACATGGCCAAGTGGCTGTCTCTCAGCTTCTTCTGGNTGC
TGATCTGAATCTCAGTCTCATCACAAGAGGATGCAGAAGTTTGACTTTTCATCCTGATTCTCATTTCC
TTTTCTTGCTCATGTTTAAATGTAGCCTNTCAAGGCTTTTAACTTGTCTGCCTNGGTTGGCCCG
GAGACCCAGACTCTTGGCTAAGTTCTGCANGTCACTGTACCTGCCGGGCGGNCCGTCGAAAGGGC
G

SEQ ID NO: 1823 ACAGTTATGCTCAGATGAACACTGGACCCATGTGACAGGGTCAAGCAACTAG
AACATGATTTCAGAAATCAGTGAAAGATACACTGGACAGGACCAAGAGGCATTTCACTGCCATGA
AACAAGGCAGGAAGGGATTCTAATACACACACAGGAAGCACTCCTGCCCTCAGAGGTCAAGG
AGCTGATCCTATATTGGTATGAGGAATGGCTTATTTTCTGATGACCACATGTGGGACTATTTNAAC
CCGNCACAAGAAACCCANAAGGGTTATTGTTTTGCATTATATATCTATACTTTTTTAATAAAAGT
AAATTNACACTTAACGAAATTCAGGATTGATCCCAACCTAGAGCCAGATCCTCTGGGGTCAGGGA
NGAAACAGTTGTCTCATCACCNCGCANGTTNCATTTGTNTTCCCCGCGTCTCTTTNTGACTACAAC
ATCCAGAAGGAGTNNCCCTGTCTGGTCCNTGCGTGTGAGAGGNGGANTGCAGATCTTCTNAAAA
CCCTNCCGGNAAAACATCACCTGNAAGTGGANCCNTTGNACCATCNAAAATG

SEQ ID NO: 1824 ACTTTATGTTCTTTGCAACTGTTTCCATTATGAGAACGCTGTGCTATTTACAAG
GTTACATTTTCTTGCCAGGCGAGGTGGTCATGCCTGTAATCCCANCACTTTGGGAGGCCAAGGT
GGGCGGATCACTTGAGGTAAAGAGTTGAGACCAGCCTGGCTAGCATGGCNGAAACCCAGTCTCTA
CTAAAAATACAAAAATTAGCCGGGTGAAATTAGCCGGGCGTGGTGGTGTGTGCTTGTAAATCCCAG
CTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAATCCCGGAGGCAGANGTTGCAGTGAGCCAA
GATCANGCCACTTGCACTCCAACCTNGGGTAANAGCGAAACTCTGCTCAAAACANAAA

SEQ ID NO: 1825 ACTGTTTACCAAACCTGAAGGTGCAGTGCTTGCAATATTTTGTCTTGGGTGTCA
GCATCCCGGACATGAAGAACATTCTCCCTGTTTCTCTTCCAATCTGACGTGTTCCCAGGTTGATCA
CAGGTGTTCCAAAAGCTCCAACCTCTCGAACCCACAGCTGCTGTTCCCAATCATACAGCCAGCAT
GGGCAACCAACTGTATAAACTGGTCAAAATGGGACGTGTTTAACTGCACGAAAGTTGGGATGATGC
TCAATGCCCTTCTTCCGCATCACTCGAACCATCTCTTTGCTCCCTGCGTCAATATTTGGAAACAGGA
CTAGGGTCCGCTTGTTAAATGAGATAAGTGCATCCAATGTTAATTCAAACATTTTATGGAATGCTT
AATGTCAGTGGCACAGGGTGCTGTAGTGCAACAATGTAATCTTTAGATTTTACATCATCACCTAGC
CCATGCGAATGATGCTCATGTAGTCTTTGTCTTGACTGAGAGAAGTTTGCATANGAAGGCACCTGC
CAAAGGATGCGATCATGGTCTCACACATGGATATCAAGTGTCTGTCTGA

SEQ ID NO: 1826 ACACAAAGGATGTATGAAATGTGGGTTTTGTTGCTGAGGATAACAGGGTATT
GCAATGCAGTAGTGATCCTACACATCCTTCCTTGCTGATTCACTGAAATCACTCCAGTGGGGAG
GGATGCAGGACATGTGGGAAAACGAGGAGCATGCAGGGCAGGACTGTCAGCAAATCAGATTACT
AATGTGATTTGACTGCAGGGGTTGGCGTGTTTTAGGAGGGACAGGAGGTTACAAAAGACAGTTTG
TGACCTGAAGGCTTCAACAATATAATTCTATTCAAGCTTCCAGGACTGACAGAGGAAAACTGGA
TTCAGACAGAGAAAGCTGATNAAAATCTTACCTAGCTATTGTTCTTCCTTTAAATAAAAAATAAA
ATTAAATTAAAAAAAGTGGCNGCCGTTTCTGACCAGCACTCTCATGATGCCTATTGAGAATCTGC
CTGATGACGCCTCTTGAGAGCACATCCCAGNCAGATGTCCCCAGTCTNTTGGGGGCGCTCCTNCCG
AACGCAGCCAGATNACACTGNATGTTAAACTGTTCTATCTCAAAGCACTATCTCCTC

SEQ ID NO: 1827 ACCTGTCTTTTCTTTTTTCTTTTTTAAATCATAGTTTGTTTTACCTGAAAGTTG
AGAAAGAATGCAGTATAAATATAGCTTTTCTCTACACGGGAGCAGGGGGAACAGAACCAATCCCC
AGCTTAGCCACACCCAACATCATGGAAATTACTGTGAACCTGTTGTCTCTTGAGGACAACTAAAAC
CAAAACGAAATCCCTAACATTATTAATAATGTTAGGAAACTTTTCAGGTAATTGCTGTAACCTCTGGT
AAAATACAGAAAGATTACATTCATCATAATAAAAATCAAGTGTGCCACGCCATCTGCAAAGGG
AACTTGCACCATCTTGGTTTCACTCGCATTGTTAACAGTGCCCTAAAAGTATACACCTTTTTCAGGA
TAAAACCATIAGGNAATATCTTGATCATATCCTCTGCATGATGAACTATCACTCAAATATTCTGC
ATGGGTTACCTTACTAACACTGACAAAGAGATAATAAATGTAATTTTACAGGGATAGGAGAAGCC
TTGCAAACCTTTCAGTTTCTTTCATAACTATTGTTTATTATTGGATATTTT

SEQ ID NO: 1828 ACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATCGTCCAGTGCTCGTGCTC
AGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAACATCAATGCTGCCAAGA
CTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAA
TGGGAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCA
GCGGCCAAGTCCATGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATC
AGTAATTATTCTTGCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCTGGAGCAGCAGATGCACCCA
ACAGTGGTGATCAGTGCTTACCGCAAGGCATTGGATGATATGATCAGCACCCCTAAAGAAAATAAG
TATCCAGTCGACATCAGTGACAGTGATGATGCTGAACATCATCAACAGCTCTTTACTACCAAA
GCCTCATCGGNGNCATCTTTGGCTTGCAACATTGCCTGGATGCTGCAAATGG

SEQ ID NO: 1829 ACACTTTTGTACAGTTACATATATGAATAGTTAGCAGAGGAGAACTCCTCC
GTTGTTCTACACCAAGGGAAAAAATGTAAGGACTGTATAGCTCATGAATAATATTAACATTTTTC
TATCACAAAATATTGATAAAATTGGAATTGTATCAATTCATGTTATGGAGCTTAACATTTTAGCCG
AAATATTAAGATAATATAAATAAGGCTTTTAGCTTCATATCAAGACCTATTTGAACACTTCTAGAA
AAGAACATTAAAGTTTTTTCCTCATTTATGGTTTGATTIAGTGTAGTGCCTCAACTGGTCTTAATG
GNGNCTTAGTATAATGCATAATTATTAGATAATAATTAAAGGCTTTCAGAAATTTTATGTGGANACT
TGGCNAAGATATTTNAGTCCAAAACCTTCAAATTCACACCCAAATATGTTTGTGGCTTAATCTAT
ACTTGGACAAGGCAACATTTTAATTTTTGCTAAGCTTAACTTANCCGANNGGTTGAAATGAAAATT
TCTTCTCTCTTGCTGAAATNCTGGGTGAGTATGTTACTTGTAAGNC

SEQ ID NO: 1830 ACTTTATTTTTTGTGTTGTTTTTTCCTTTTGGATCTTGATTGATAACTGCCAT
GATATTTTGCTTGATGTGTTTCTACATGTAGTTGCACACGGTTCAGTAAAAATAATGCTGCTATCG
AGTATGCAAATATTGAAGTATGATGGTTTGACTGTATGGCAGTGTTGTAGCAGCCTCTGTTTTTTT
CCCCATTGCCCTTTTTTTAAAAAACTTATAAAGTCACTTTTTATTTTCTCAGCTTCAATGACGA
GAGCAATATTAAGAAGACATTGCTATCTAAATTTTAATCTTTTTTAAATGAAAAAATTCCTATGTTT
AGTAGCGTGGTTGATGCTATTGTTTAGCCTTCCCTCCAAATTGTATACATTGGCTTGGAATGTTCA
CAACTTGCGTGCGTGGCAGCGGAAGACGATTCCCATATTCTACATTGCTACTGTTTTGTATAAAAT
AAATTGGTAAAGATTGCGGCTAAAAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
NCTANGGCG

SEQ ID NO: 1831 ACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTTCAGAGGCCCGTGAGGACA
TGGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGAGCAGATAGTGCTGACGGAGAGGATGAGGGT

GAAGAGTATTAACCTGTGTGCTGTACATGTGATACATACATTANAAGAAAATAAGGAAAAGAAAAG
 AAATTTATNTGTAAATAAATGAAAATAATACTTCTCCCTGATTATAAAGAAAATTGCATTCTTTTT
 GTACTCNTTTGGANNACCTNCTATGANNGAAAAGTCTTTAATTTGCCACTGAAAGCATTCTGGTT
 TGNTGCTTTTTATATTTTTTATGCATATGAACATTTTAAAAAGTAGAATCGGTAATATATAGACTT
 TTGTCATATGTTTTGGGCATATTTATATGGCAGNAAATATATCCTTGGCATNATNTTNTTAAAN
 CTCGATGTATCCCGNGTACCTNCCNNGCGGCCGTNTAAAGNCGNATTCCTNACACTGGCNGTCGT
 ACTANTGNATTCGAGCTNNGGCCAACTTNCGAATNATGNGCGANCTGTTCCCT

SEQ ID NO: 1832 ACAAGCTTTTGTCCAAAATGGCACAGCGAGCACAAATGAGTTCCTGTGTGAT
 AAAGACAAAACCTTCAACAGTGGCACCCACCATAACACCACTGTGCCATCTCCTACTACAACACC
 TACTCCAAAGGAAAAACCANAAGCTGGAACCTATTAGTTAATAATGGCAATGATACCTGTCTGC
 TGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCAACC
 CCAATACAACTCACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCA
 CCATTAAGTATCTANACTTTGTCTTTGCTGTGAAAAATGAAAACCCGTTTTATCTGAAGGAAGTGA
 ACATCAGCATGTATTTTGGTTAATGGCTCCGTTTTACATTGCAATAACAATNTCAGCTACTGAT
 GCCCCTGGGAAGTTCTTATATGTGCAACAAAGAGCAGCTGTTTCAGTGTCTGGAGCATTTANATA
 NATCCTTTGTTCTAANGGCTCACCTTTNATGTGACCAANGAAAGTTTCTA

SEQ ID NO: 1833 ACTGCCCGACTTCCTCATCTTACTGGGTCCAGCATAAAGCAGATGTCCACTGT
 CTTCTCAGATGCTGTGATCTTGGCTTANAGGTAGGCACAGTGCCGCTCCAGCAGCGAGGGGTTCTG
 CGTTACTTAGGAACAGCAGCTCTTTTTCCCTTCTTCTGTAGGAGCTTTCTCATGTTGAAGCCAATT
 GTTTTCCAAATAATACTGAATACAACCTTTCAAATTCCTTTGGGTTATAGTTGGAAACCAGGATGGG
 AATAAAGGGATCCAGGGCATCAAATCCTTCTTTCCAGCAACTCCTGGGGCAGATAGGCTTTCCG
 GGGCTTAAAGAGAGACCCAGTCTGGCTCAAAGCCGACACAATGGCGCCTCCATGCCAATCATTTT
 TCATCATTTTCTCAAGTTGTGAACAAGTGCTAATTCCTCGGGGCAATCGGGCTTTTATCTTCTCT
 TTTACAGAGTGGTTCTTCCCAAAGAGCATTGATTCCATCCACGGCCACTAGGAGGTGAAACATACC
 CAAAGAACCTTGTCTTACTCTTTCAGCACAAATCCAACCTGATCTGTGC

SEQ ID NO: 1834 ACTATGCTATGTTGGCTAAAACCTGGTGTCCATCACTACAGTGGCAATAATATT
 GAACTGGGCACAGCATGCGGAAAATACTACAGAGTGTGCACACTGGCTATCATTGATCCAGGTGA
 CTCTGACATCATTAGAAGCATGCCANAACAGACTGGTGAAAAGTAAACCTTTACACCTACAAAAT
 TTCACCTGCAAACTTAAACCTGCAAAATTTCCCTTAAATAAAAATTTGCTTGTTTAAAAAANA
 AAAC

SEQ ID NO: 1835 ACTCAATCTGAAAGATGTAGAAGAAGGAGATGAGAAATTTGAATGACACCC
 ATCAATCTCTTACCTCTAAAACACTAAAGTGTTTCCGTTTCCGACGGCACTGTTTCATGTCTGTGG
 TCTGCCAAATACTTGCTTAAACTATTTGACATTTTCTATCTTTGTGTTAACAGTGGACACAGCAAGG
 CTTTCTACATAAGTATAATAATGTGGGAATGATTTGGTTTTAATTATAAACTGGGGTCTAAATCC
 TAAAGCAAAATGAAACTCCAAGATGCAAAGTCCAAAGTGGCATTTTGCTACTCTGTCTCATGCCT
 TGATAGCTTTCCAAAATGAAAAGTTACTTGAGGCAGCTCTTGTGGGTGAAAAGTATTTGTACCTGCC
 CGGGCGGGCGCTCGAAAGGGCG

SEQ ID NO: 1836 ACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCTCTGG
 CTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAATTTGTTGCCATGCCTGCTCTCGCCCCACCA
 GAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAAC
 TGCTCTCCCGGATGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCAGCGTCAGAAGTCTAGT
 TTTATAGGCAGCTGTCTGTGATGTGACGGTGCAGCCGTGTGTGCCACCTCATTATTATCTAGCT
 AAGCGGAACATGTGCTTCATCTGTGGGATGCTGAANGAGATGAGTGGGCTTCGGAGTGAATGTGG
 CAGTTTAAAAAATAACTTCATTGTTTGGACCTGCATATTTAGCTGTTTTGGAACGCAGTTGATTCCT
 TGAGTTTCATATATAAGACTGCTGCAGTCACATCACAATATTCAGTGGTGAAATCTTGTGTACTG
 CATTCCCATTCCTTTTCGTTAGAATAAAAATAAAGTGNATTTCAAATA

SEQ ID NO: 1837 ACTGTGTGGCGCCTTATTCTAGGCACCTGTTGGGCAGAATGTCACACCTGCCG
 ATGAAACTCCTGCGTAAGAAGATCGAGAAGCGGAACCTCAAATTGCGGCAGCGGAACCTAAAGTT
 TCAGGGGGCCTCAAATCTGACCCTATCGGAACTCAAAATGGAGATGTATCTGAAGAAACAATGG
 GAAGTAGAAAGGTTAAAAAATCAAAAACAAAAGCCATGAATGTGGGCTTATCAGAAACTCAAAA
 TGGAGGCATGCTCTCAAGAAGCAGTGGGAAATATAAAAGTTACAAAGTCTCCCCAGAAATCCACTG
 TATTNACCAATGGAGAAAGCANCNATGCAGTCTTCCAATTCTAATCAAAAAAGAAANANGANGAA
 NAAGAGAAAANTGGTGAATGATGCTGAGCCTGATACGAAAAAAGCAAAAACCTGATAACAAAGGG
 AAATCTGAAAAAGAAAGTGCCGAGACTNCANAAAAAANAANAATAAAAAAAGTACGTTTT
 GTACAGGCATAAAATTTTAAAGATTCTTAATCTAGGGACTTGCTCCTGTNTTCTGAAG

SEQ ID NO: 1838 ACTTTTTTTTTTTTTTTTTTTTTTTTANAACCTNTGCAATTATTAGTTTATTA
GTATCATCCAGGACTCANATGTTTCAGTATTCCTCCTGAAATTACATAAAACAAATGCAAATGGAAA
GAATCCAAGTCTAAATTATATAACAAAACAGCACTCCATCACAAAAGCGTGTAATTTACAAGAA
CGCTATTTTAAAATACTGGCACTTTAANAAAACGATAATCTCGAAAACCAAAAATTGCCAAATT
GTTCCCTAAACTCTTAAGCAGATAAACATGACTAATGAATGAGTTTGTTTTGTAAAGAAAAATCAT
TCAAATAAATTGAATAATTCATACTGAGATGCAAAAGTTGNCTTCTTTCTTCCTATCTACTTGGATT
TATAAAGGGGCAAAACCGTAATATANGAAAAATATACCCTATTTGAATGTGGCATCTTTGTTTGA
AGCTGGCCATTAATTAATAAATACTTGTNATGGAAAGCTCGTTTCCTGAGCAGCCATATTTAGATAA
ATGGGAAAAGACATCTATACCAGCATTTTCTAGTCTTCCTGAGACTA

SEQ ID NO: 1839 ACAGAAGTTTTTCATCTATGAACATGGCCTCATCATCACCTGCAGCCTTGGCCT
TGGCCTGTTCTTCAAAAAGCTGCCGCTGCCGCATGGGATCATTAGCTCAGTATACGCATTGCATA
TCTCTTTCTTCATGACAAACAGCTCAAAGCGCTTAGTCAGACCCTCTTTAGAGCGGTGCCATTAG
CCAAAGGGCTCATTATCTGTGGGTGATCACAGATGAATGTAGGATTGATGCAAGTCACTTCCAGG
AACTCCCAACAAGCTTGTCAAGGAGCCTGGCTGTGGTCCGAGGTGGAGGGCATTCAACAGCTTT
TGCCACACAGATATCATCAAGAATTTTGCAGTTTCTTCAGTTTCAAAGAGGTTTCGTTTCTGGCAG
CTTCATCCCCAGGGCTTTCTCAAGCTCTTCTACCATGTTGATTCCCGGAAGGGTGGGGTGAAGTCA
ACATCGTAGCTTGGCCCTCTGGGCCATCTGGGTGGAGGTGACCTTGTAAGTGCCTGTAATATGCTT
CACCATCCCTGAAACCATCTTCTCCGTGATTTTCATGAGTCGTGATGATC

SEQ ID NO: 1840 GCCCTTTACATCGCTGAGAGCCGCTGTCTTGGTTAGATGGCTCTGGATTAGG
ATTCTCACTGGAATACCCACCATTAGTTTACATGCATTATCCAGGGACCGAAGTACTGTCTAGG
AGAGCATTTGTATGTTATGGTGAATGCCAAATTTGAAGAAGAATCAAAAGAACCTGTTGCTGATG
AAGAAGAGGAAGACAGTGATGATGTTGAACCTATTACTGAATTTAGATTTGTGCCTAGTGAT
AAATCANCCGTTGGAGGCAATGTTCACTGCAATGTGCGAATGCCAGGCCTTGCATCCAGATCCTG
GNGGATGAGGATTGAGATGACTACCATGGAGAAGAATATGATGTGAAGCACATGAACAAGGAC
AGGGGGACATCCCTACATTTTACACCTATGAAGAAGGATTATCCCTCTAACAGCAGAAGGCCAAG
CCACACTGGAGAGATTAGAAGGAATGCTTTCTCAGTCTGTGAGCACCAGTATATATGGCTGGGGT
CAGGACAGAAGATTTCATAAGAGATTATGAAGATGGGATGGAGGTGGATCCACCCA

SEQ ID NO: 1841 ACGTGCACCTCCTGTTTCAAAAACGCAAGCAGAAAATAGGTCTGGACAAGGG
CAAGCTGCAACTCAATTTCTGCTGCAACCCTAGCTCAGGTAAGTTATGTTTATTCCTTCACTTTGCT
GATATAGTCAGTGAGTCTGTTGATGCCTTCTTCCTGCTGTTCTAGGGCATCCAGGACAATGCCCAT
CGGTGTCTCTTCAAACCTATTCTTCCATTTTATTCTCCAGTTTGTCTTGAGGTTCCGAAGTCTCA
ACGATGCATGGATAAACATCAACAGCAAAGGAAAAGTAATGCCAAACACAAAGACCATGACTCC
TCCAAACATGGAGATAAGGAAATAGCTCGCCAACATGACCACCATAACGAACGTNGTGGGGTAGC
GCTTCTTCATCCGGCGAAGGACGTCTTTATTGTGGGCTGCCACACAAACCCTGTGAACACCAGCAC
CACCACGATTCTCCAGGATCATGTTGAAGGGACTCAGAAACCCCCAATGGAAATCATNATGGC
AGCCCCACCAGGTAGTTGGTCTGGAATAGACANGTGCTCACTACCGGTG

SEQ ID NO: 1842 ACGCGGGGCTTTTCTCTCTTCAGCGTGGGGCGCCACAAATTTGCGCGCTCT
CTTTCTGCTGCTTCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCT
GCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATC
ACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCACCGCTGCCGACTTGTGTCTATGCCCT
ACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAA
GCTTTGGGCAAATATGGTCTGCCGATGTGGAAGACACTACANGGAAGTGGAGCTACAGATAGTA
AAAGATGATGATTACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAANAANCAAGAG
CTAAGGGAAGAACGTCTTGCACAATATGAATCAAAAGAAAGCCAAAAAACCTGCACTTGTGTTGCCAA
GTCTTCNTCTTACTAGATGTGAACCTTGATGATGAACAA

SEQ ID NO: 1843 ACTACCAGGTATTGGTTTCGTTTACAATTATTGATGGAAATCAGGTCAGCGGA
GAAGATGCTGGAAACAATTTCTTCTTCAAAGAAGCAGTATCGGCAAGAACCGAGCTGAAGCTGC
CATGGAATTTCTTACAAGAATTAATAGCGATGTCTCTGGAAGTTTTGTGGAAGAGAGTCCAGAAA
ACCTTCTAGACAATGATCCCTCATTTTCTGTAGGTTTACTGTTGTAGTTGCAACTCAGCTTCTTGA
AAGCACTTCACTACGCTTAGCAGATGTCTCTGGAATTTCCAGATTCTCTTTGATCTGTAGGAC
ATATGGACTAGTTGGTTATATGAGGATCATTTATAAAAAAGAACATNCAGTAATGAATCTCATCCA
GATAATGCATTAGAGGATCTACGACTAGATAAGCCATTTCTGAACTGAGAGAACATTTTTCAGTCC
TATGATTTGGATCATATGGAAAAAAGGCCACAGTCATACTCCATGGATTGNGATCATAGCTAAA
TATTTAGCACAGTGGTTAGTGAACAAATGGACGAAT

SEQ ID NO: 1844 ACATCCTACCCCTCTCCCATTTCCAGAGCCACCTAAGAGAAGTAAAAAACTA
TTGCGATGTTGTCACTGGGAGATTTTGTCTGAATCAAACAACAAAACAGAAACATGTTGGAGACT

GATGTCTTTGGTGCAAAGAAAGAAATCACAGAGGAGGTGAGGCCCATGCTGTTGCCGTTGGCCCC
 AGGGATCCATGGTCAGCTTTGACTCTCACCAAATGCCAGGTGTGGACCGATGGTTGGGCTGGTTG
 TATTGATGCTTTGGTAAAATCCTTTCTCGCTCTGGGCCTTATTCCTCTCTCACCCAGTGGTCCCTG
 GAATTTATGCCCCGTTTGC GCCTGCCTTCAAGATTTCTGAAGTTGCTTGGCTNAGCTTCATCTCAGCA
 AACTGGATTGAGTGTTCTGGCCCTTCCAGTGAACCAAGTTAACGCCCTGACTGTGGNTATTGTCC
 CCATATCTCCCCATCAAGGTGACACGGTGACAGTTCCCTGT

SEQ ID NO: 1845 ACTTTTTTTTTTTTTTTTTTTTTTTAATTTTGANATGGAATTTTGCTCTTGTCAC
 CCAGGCTGTAGTGCAGGGGCGCGATCTCGGCTCACTGCAACCTCCATCTCATGGTCCAAGTGATTG
 TCCTGCCTCAACCTCCTGAGTAGCTGGGATCACAAGCACACGCCACCACGCCTGGCTAATTTTTGT
 ATTTTATAGTTGANACGGGGTTTCACTATGTTTGCCAGGTTGATCTTGAACCTCCTGACCTCAGGCAGT
 CCACCCACCTTGATNTCCCAAAGTGCTGGTATTNTAGGCGNGAGTNACTGTGCCCCGGCCAAANA
 AAACCTNTTTAATGCTGAAGGCCACACTTTTTCCCATGCATAGCACTGTTACCAATCTAAATAGAT
 TTCACAACCTGATTTGGTAGCCTGACCCCTGGGTGTCAAGCTGTTTCGNTTCCACTGCTTNTATCCTGG
 GAGAAGTGAAAGCTCATTTGCTTTGTTCTTTTACAAGTAAAGCTAATAAATGATAATGTTTGGTTT
 TGACATTTAATCTGNGCTAAANACACTNTG

SEQ ID NO: 1846 GCGTGNNTTGTGCGGAGGTACAGGTAGAAGCTTGATTGCTAGGCCCAGGCC
 CACCCAGACCCCTCCAATCCTAACAGGTATTTAGGCTTGAGGTTCACTCCCTCCTCAGCTGCACACG
 CAGCCAGGTATAACACTCGCCCTCAGTCACAACGGGGAGGGGGCACC GGTTACATCTACATCACA
 TTATTTATAAAATAAGAATTACATTTTCATATAACATGGCCAGAAAGGAGCTCTAGTCCCCCAGGAAA
 GCTGCCGGGGACAGCATTTGAGCCTCTTCTTTGCACAGGCATAACTTAACCTATACAGCTAATTCCT
 AGTTAATAGCACTTATACTTAACCACTCAATGAACCAAGCTTGAAGGAATTTAAAAGGCAATTTA
 GCTTAAATACAAAAATAAAATTTTTGTTAAAAAACGTTTAAATATTTTTTCTTTTAAATTTAGACACA
 CGCATTCATACTTCTCCCAAAGAGGCTGGGCGTGACAGCAAGGCGCTTGGGCCTGGGGTATGTGG
 TTTTCAAGAGGACGGAAGGAAAGGATGGGCTGCAGAGGCCCTGTTTGGGAAAAATAGGA

SEQ ID NO: 1847 TTCGCCCTTTTTCTTTTCGCCCCGGGCAGGTACTGNAATTGAGCATCCGGAATA
 TGGAGAAGTAATTCAGCTACAGGGTGACCAACACAAGAACATATGCCAGTTCCTCGNAGAGATTG
 GACTGGCTAAGGACGANCACTGAAGGTTTCATGGGTTTTAAGTGCTTGTGGCTCACTGAAGCNTA
 ANNGAGGATTTCTTNGCAATGAAGTAGAATNACCTTCNCTCCCTTGTCACANGGNTAAAAACC
 NCACAGCTTGTATAATGTAACCATNTTGGGCTCCCGCATTNTAACTTGNAGACAANTGNAACCTCNT
 CATGCAATAAACTGAAAAGAAGCCCGTAAGN

SEQ ID NO: 1848 GCGNGNTTGTGTTTTCGAGGNACCTCGTTTTTCAGGTTTCATCCATCTCCAGTGGA
 ANGTTTNCATAAAAGATGAAGAAAATGNGTGTGANCTTTAATAACACATCCCTATAGAAAGTGG
 ATAAAAGANATACAAAACCTGNAATACAGATATATACAAATATAGGGGCCTNTTTGATTACTCTN
 GTNTGTCTAGTATGGCCTNGGAAAGAAAACCAAGCAAGCAAGNGTGCTGCCTANTCTATANGNAA
 TATTTTATACATGACNGATATTTTTGTGNGAGGCAAGTGGGATNCTCCTCAGATATTTAAAGGN
 GATACNGATTNGNATTTATCTCTAAAGAATTAACAACCTTAGAAAATGCCCGNTTCTNTCCATCNATT
 NCTNGAAAGGNCTTCGNGGANTTATATAGAGGGGAGCTATAATAAACANTAACTCTAGATGGGGG
 ATTTAAANTGCCNANNGNAAGANAAANAATNGNGAGGCTGGANTCACTACCAAGANGAACTTCA
 C

SEQ ID NO: 1849 ACCATTTTATCACTGTNCAAAGCACTGTCAAATTCCTTTTCATCCTTTAATAGTT
 AAGATCTTTGAATCTTCAGTCTGATTTTTAATGTAAGCAAAAACAGAACCATNGAGTAGTAATTTG
 TTGAGAACCTCAGGTGTTCTATAAACAGTCCTTTCTGNTATGTCTTATTACCCTAAGACCAGAG
 TTATTTTGGNGTGCGNGGTATGGNNNATTTTTGTNTNGNATCCANGGCTGGCACTTTACTCANT
 GCCTNGAGNNTATTGCCCCATAACTAAAGGATCAGGATGATGGNAGAACGGAGATCTGGGNNTA
 AANAGCTTTCCCCATTTAANAAAAAATAGATCTTGAGAATCTGATTCTNTTCCAAACAGCCNGCT
 TNCATGNACCTGCCGGCGGCCCGTCGAAAGGGCG

SEQ ID NO: 1850 ACCAGCAGTGTGTCAGGNGCTGCAGAGCGTTCTTGGAGAAGGCCCACTGAGG
 CAGGTTCTGTCCTGTGCGGCCAGCCTGACTAGACCCCAACCTGAGGTCTGCAATTTCTCAGTCG
 GTGTGTAATCAGTTCCAGGGCCCAAAGCCAGCTCTTTGTTTCACTTACTGTTTCTTACTCTT
 AAAAAAGTAATTGTAGATGGAAATCAGTTGTGTTTGGCAGGAGAATCAATAAAAAATCTTTGATTCA
 GACAGCTTATGGGGTATTTTAAGCATTCTTAGACTAGTTGAACATCTCACTTTGCCCCAGTTACAA
 AAATAGTAGAACAAGCAACATAAAACAATGAAGGAAAACCTCACTTGAAGGCCCAAGGTCAACAT
 CTAANCCTGTTGAGACTTAAANAATCCGAGTCTACCTCTTCANTAGGTTTGTGTGGATGGCCTGGA
 GGGCAAGTGCCCTCTGCTCCCCAGTGCTCCTCTCTCTTCTTANGGCCCTTTTGTGGATTGACAGTAGC
 CCTCCGTAGGACTCACAGCCTAATTAGAAGGGNTTAAA

SEQ ID NO: 1851 ACCGCGGGGGCGTGGCGGCGGTGGCGGCTGCGGCAACAGCGGGGCCGATGT
GTAGTTGGTGACTGCCTCTCCANATGCTGAGGNGCCTGTATCATTGGNACAGGCCAGTGCTGAACC
GTANGTGGAGTANGCTGTGCCTTCTGAAGCAGTATCTATTACAAATGAAGTTGCAGTCTCCCGAAT
TCCAGTCACTTTTCACAGAAGGACTTGAAGAGTCTGACAGANTTATTTGTCAAAGAGAATCACCA
AATTATGAATAGNAGGGAGGAGCANGANGGATTTATTANATGGAGTAAAGCCTCANGATTNTATT
TTCCCCCNTTGGGTGCCTCTT

SEQ ID NO: 1852 ACCTTTTGGTGCCAGCGTTTCAAGGAGCCCTCACCATGAAACAAGTCAACCC
CAGCAAGCGTCTAGATCATTTCAGCGGGCTCGAGAACAACCTTTATAAACTACTTAACTCAGTGCCA
TTGCTATCATGTGGCAGAGTTTGAGCTGCCCAAACCATGAACAACCTCTGCTGAAAATCACACTGC
CAATTCCTCCATGGCTTATCCTAGTCTCGTTGCTATGGCATCTCAAAGACAGGCTAAAATACAGAG
ATCAAGCAGAAGAAAGGAGTTGGGAGCATAGGTTGTCTGCAATGAAATCTGCTGTGGGAAAGTGG
TCAAGCAGATGATGAGCCGTGTTCTGTAATATTATCTTCTTACCTTCAGAGGTGGATTGATATCA
GCTTAAAAGAGATTGAGAGCATTGACCANGAAATAAAGATCCTGAGGGAAAGAGACTCTTCAAG
AGAGGCATCAACTTCTAACTCATCTCGCCAGGAGAGGCCTNCAGTGAACCCCTCTTTCTCACTCG
GAACATGGTCAAGCCAAAGTTTGGAGCTGGTATTCAAGTCTGCCACTATG

SEQ ID NO: 1853 ACCTGAGGAAGCGGTTTGGAGGCCAGCGGATCCAGGTCTACCTTTCCCTTCTG
TCCCTGCTGCTCTACATTTTCACCAAGATCTCGGCAGACATCTTCTCGGGGGCCATATTCATCAATC
TGGCCTTAGGCCTGAATCTGTATTTAGCCATCTTCTCTTATTGGCAATCACTGCCCTTTACACAAT
TACAGGGGGCCTGGCGGCGGTGATTTACACCGGACACCTTGACAGCGGTGATCATGCTGGTGGGG
TCTTTAATCCTGACTGGGTTTGCTTTTCACGAAGTGGGAGGCTATGACNCCTTCATGGAAAAAG

SEQ ID NO: 1854 ACTCCAGCAAGAGGAAATATGACACTCCCAAAACGAAGAAGAAGTATTGG
GGCTTCCACAGCCCTCCTCTCCCAAGAAATCCGGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCA
GACTCCAAAGGGTATCTTAAATGCAATCTCTTCTCTTAGCCCTTGGCCACTTNTCCTGGATCCT
GCCCTGCTCTCAGCCATAGTGAAGGACCNCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGT
GAAGCCATAAACAGGAATGCCTTTGGNNATAACCTTNNANCCTAGAGGGGGCCTCTGNTNCCCCNC
TGANGTGTGTGGGTTTATTGCTGGCAACNTGAATTCTCTCAGGGGTCTATGAGGGGCATTTTGGGA
GACTGNCTGACACCATCCCTATCCCTGCTCCCCCTCTCAGAAGAGGGTGGAAGATGAAATGAAAG
CTATGGGACTCTTGAAGATACCCAGTGCTATTCTGGGTAGAGAAGTGCTTACTAAGGGGTTTCT
AATAAAACAAATGCCCAAAAAAAAAAAAAAAAAANAAAA

SEQ ID NO: 1855 ACAAAAATTTGAAAGTGTGACAATGACAATTATGAAATCCTGTGACTGAAAG
TCCCTCGAGTGCCTCTGTGGTGCACATGCGCCCGCCACACAACTCTGGCATGGAAACATAA
ACTAATGCAAACCAAGTGCTACCCAGAAGCACCAACACGTGTGTTCTCCATTCCACCAATCACAGA
CCAGTATCTACTCCAAACATCCAGTAACGAAAACTATGGCATCTTCCAGGAACAGCAAGGCAGG
CTTCTTACTCACGATGAACCAGCACGAATAAACCCAGCAAAAAGAGAACTGCATACTTAAATTTA
GGATAGTCATTTCATGAGGATCGTCACAATTCGAATATAAGGAACAAATCCCCTGGCTCTCCCCACA
ACATCTTTTTTCTCTAGCCAATGTTGTCTTGTATAGAGGCCTCGGTCATCAACCCGCATATATTAT
CTCCTTTGGGTCAAAAACCTTGATATGCCATTTTGTCTTTCATGAATCTTCAAGACTCNGTGAACATA
TTAGGAATCTCTCTTCTCTATCCTNAAACAACAATTTTTTCCACTCGNT

SEQ ID NO: 1856 ACAGTTGGAGTCTGTGTGTTTTCTTGAATGTTTGAGACAGCTTCACCTTGAAC
TTTGAATTTCTCAGCAGCTGCTAGTTGTGCTTGGGATAAATCTTCGATCTTGGCTTCCCCAAAA
ACTATGTAAGTATCTGAAGCAGGGCTCTGTAGACATCTGGTTTTGTGATGACAAAGAGGATATTC
TTAGATTTCCGGATAGTGACTCTAGTAACTCCTGTAGCCTGCCGAAGACCCAGTTTGGACATAGCC
TTCCGTGCCTTCTTTTCACTCCGACTCTGTTTGTCTTACTGACTGTTTCTTCATCGATTTAGCTGC
TGCCGCCAGCTGGGCTTGTGTGTGGTTGCCTGGGTGGAATCCTGTTCTTCAAGCTCTGGT

SEQ ID NO: 1857 ACAAGTTCGGCTTTGAGCTTCTCAGGGGCCTCTGGGAACATCCTTCAAAGG
AAAATATGGGTGTGTAGACTACTGGGTGAAGGCTTTTCTTGACCGCCGAGCCAGCCAACCTCAAG
AGACAAAGAAAACTTTGAAGTAGTGATCTGGTGGATGTCAATACCCCTGATTAAATGGCACCT
GTGTCTGCTAAAAAAGAAAAGAAAGTTTCTGCATGTTTCTTCTGATGGGCGGGTGTCTGTCTCT
GCTCGAATTGACAGAAAAGGATTCGTGAAGGTGATGAGATTTCCATCCATGCTGACTTTGAGAAT
ACATGTTCCCGAATTGTGGTCCCCAAAGCTGCCATTGTGGCCCGCCACACTTACCTTGCCAATGGC
CAGACCAAGGTGCTGACTCAGAAAGTTGTATCAAGTCAGAGCCAATCATATTATNTCANGGACAT
GCCCATCATNGCGTGGCAAGAGCCTTCNGGTTCAAAAAGATCAGGCCTTTTATCCTGGGCTGCAAC
ATNCTTCGANITGAATATTCCTTACTGATCCTATGTTAGCGGTCCC

SEQ ID NO: 1858 ACGCGGGACACTTGGCCAACCATATTTTATTTTATATTTTATTTTATTTGA
TCCTTGTTCTGAAACCATAAAGTGAGTTTAAATTTCTGGCTGGGCACAGTGGCTCATGCCTGTAA

TTCTAACACTTTAGGAGACCAAGGCAGGAGGATGCCTTGAGCCCAGGAGTTTGAGACCATCCTGG
ACAACATAATGAGAAAAGAAAATACAAAAATTAAGGGGTGTGGTGACACATGCCTGTAGTCTCAA
CTATTGGGAGGCTGAGGCAGGAGGATTGCTTGAGCCCAGAGGTTGAGGCTACAGTGAGCCAGG
ATCGTGCCATTACACTCCAGCTGGGCGACAAGAGCCAACTCAAAAAAAAAAAAAACAAAAA
AAAAAGTACCTCGGCCGCGACCAAGGGCG

SEQ ID NO: 1859 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
GTATCTTACAGGAGTATTCTTATCCATCCCGTGGAAAAGGTTGCTTAACAACCTGCAGTCTCAGAGA
CGGGCGTTACCTTTCGCGAAATTTGACCAGCTTTTCACATAGGCTTTCAATCAAAGCTTCTTGCTTG
TCTGGTTCCAGGATCAAGAGTAGGGATACCACACTGTTTCATCACACTTTCAACATCTTTATCATCC
TCCTTCAGACACACATCACAGGCTTCAATAATTTGAGCTAAATCAACATGAAGTCCACCTTCCGAG
TTCTCTTCTGAAATCTCAGCTCCTTTAGATTTTCAGATAAGCACGAAGCTCAGCAGCCTGATCTTCT
CACTGATGTCGATGAAGGCCGGGACGCTCATGGTGCANGCCCGGGCACAGNGGACACTCCACTCG
CCNCCGCGT

SEQ ID NO: 1860 ACTGTTTTTCAGTATTTGGGGAGGGTGGTTTGAGCAGCATTTATTGACAATTT
CATAGTGGGGATGTTTCTATTGAAAACAGGGTTAGGAAGTCATAAAATGTTCTGCAATATAAG
GTAATAATACCACCAGCGTTTATCTTACTGTTTTTCATGTTCTAAGTGCATGCATCTGAGTAAAAGG
ATCTGGGCTCAGTCCAGTCTGAGAGATGCCAGCAAAGGCTTCTAGGCCANTTCANTCCAGTAA
ATCTCTTCTGAAATCTCAGCTCCTTTAGATTTTCAGATAAGCACGAAGCTCAGCAGCCTGATCTTCT
ATTTTGGGGAAAATGAAANAGTTGTATTCTTNTTTGAGGTAGNAATTCACCTTTCAANGGGCAAAT
ACATTTTGTATTATNTTATCACCTTCANTGANGTTGTNTTTGNTCTTTAATCAAGGATGTATGTT
N

SEQ ID NO: 1861 ACGCGGGGAGGAAAGCCGTGCGTTGCGTTCCAAGGCATCTGTGAGCCCGCGG
AGTATACACCATGAGCAAAGCTCACCTCCCGAGTTGAAAAAATTTATGGACAAGAAGTTATCAT
TGAAATTAATGGTGGCAGACATGTCCAAGGAATATTGCGGGGATTTGATCCCTTTATGAACCTTG
TGATAGATGAATGTGTGGAGATGGCGACTAGTGGACAACAGAACAAATATTGGAATGGTGGTAAT
CGAGGAAATAGTATCATCATGTTAGAAGCCTTGGAACGAGTATAAATAATGGCTGTTTCAGCAGAG
AAACCCATGTCTCTCTCCATAGGGCCTGTTTTACTATGATGTAAAAATTAGGTCATGTACCTGCC
CCGGCGGGCGNTCGAAAGGGCG

SEQ ID NO: 1862 ACATATTTAATTATGTAAAAATATTAACACCACCATTACAAAACCTTCTAAAA
TATTTTAAATTCAGTAATAAATTTTAAATATTTTTTACAATTCCTACATGCACTTATTATATAA
GTCTTAATAAGAGAGCATTCATTTGCTGTCTGGCATACAAAGGAAGCTACTTTGAAGTATAAAAG
CTATACACAAGAAATGTTCTTATCTGTTTCAGTGTTTTTTAGCTTTCTCCCAACAAATCACATAA
AACAGAAGGGAGAGATGAGCAAAACAGAGGTGTATTACTGAAAATTCTACTAATCTTTAGGCAA
AGCTCATCAATGCCAGTATCTCATAATAGACAGAGATTTTGCATATAATAAAACCCACCACCATG
TAATAATAACCACCTTAATGGCTTTTTCGGTAAAAAAATTTAAGCTGAATCAGANGAGAGAAAGA
CTTTTAAAAAATAATTTAAAAAAGAATTCATGGTGTTCATTTAAAAAAGAATACTTGGTGTTTTCA
CGCAGATATGGATTCTCTCACATTAAGGTACCAGCAAATGGNGAGCCTG

SEQ ID NO: 1863 ACGCGGGAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATTATGA
CAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCANANACTATAATGGCANAAACCAGG
GTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGAAATGAGACATGC
ACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTTGTATTTA
TAAAGGTTTTTGGAGCTGCACTGAANCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAANT
AGACCTGCCAAGGNAGCTGAANACCTTTTANACAGTTCCCATCTTTTTTTTAAATNTTTCTGCCT
ATTTAAAGACAAAATTTGGGACCGTTTGGATNAACCTGANTANTTTTCTTTTCCAGNTTTTNA
GATNGNCCNCTTNAATGTTANTGGNACCTAGCATNANTTGNNTTCTGGNAAATNTTGGCCAAACN
GACTTAAAAANAATTAATGTNGNATNCNGGGGNCATNTTAAAAAACCC

SEQ ID NO: 1864 ACAAGTTCACACTCGCCCCACGGGCAAGTATATCATAGAGGGAGGAAGCCAC
TGCTTCGGTCTTGATTGTGGAGTGAGGTTGGCCCCAGTGATCTAGCCAGCCAGTATAGAATTCAGA
ATTGATCAAGGGTCTTTGGGCTCACACTTCTCTGGCTTAGGAAAGCATCTGTGATGTTGCTGCC
TGTTCCAAAGTCCACCGTGGTGTAGAGGCCCTGCNNGGCCCCACATTTCAAGGAATGTTTTATGTGC
TCCATCAGTGGTAAACANAACCACATCATCCCCANATNGTGGCGAAAGCGCTTCTGCAGGAAGC
GCATGTAGTCAAAATCGCAGGCAAAGTATCTGCCATATTCATTTCAACCTGCACTGTGTNTAACT
GGCCCTTCATTCTGTAGNGGAGAGCCTTATNNTTGGGCNAGAANGACTNCCAAACACTTGNTC
CACANCNTGCCANGTAACTGGGTCTGAGTGACNNG

SEQ ID NO: 1865 ACCCAAATATAAAATACTTGTTTAAATGTAGAGTTTCATATCCTTTAAACCTC
ACCATAAACATCTCTGTGGAATCTTTCATAGGGAACAATTATAGTGTGATAAGTCCACCCCTTA
ATCAGCACATAACCCAGAAAAGTAATTTTGATCAGAGAAGTTGCTCCTACAGAAATAACAATGTGT
TAATGACAAGAAAAAGAACCCACATCTTTGAGCTGCAGANATGCCAGCATCTAACAACCTGATGC
CTTATGCTGGGACACATGACTTATTTTGTAGTCGATTATTTATTTATTTGTTTTTAAACAAGCGC
ATGCCACCATGTCTGGCTAATTTGTTTTTATTTTATTTTATTTTGTAGAGACAAGGTCTCACTA
TGTTGCCAGGCTGGTGTCAAACCTCGCCTCAGGCAATCCTCCTGTCTCAGCCTCCCAAATTGC
TGGGATTCAAGTGTGAGTCACCACACCTGGCCTTATTTTCGAGTTTTAAAGGCAATTTCTTGCC
AGTGAGACTCCATGTTGAAGTCAGTATGGTCTGGGGGGTNGAAAAA

SEQ ID NO: 1866 ACACCTTGAAGGCGAGGTTAATTAAATCCTGTTGTGGAGTTTGAGGGCCGGA
ATTTAATTTTTGGAGTTTTATTTAATATCGGGAGCAGATTGGGTAATAAAATGTATATTGAGAATA
AGACGGCCTTTTGACCTTTTAGGGTCTAGGGCTGTAAAGTGTCTCAGGGTTACTGCCGAACGAGCC
ATGAACTGGGCTGGGTTTTATATTGATGAAAAAGAGCCTAAACGCTTCTGATTTGGGATAAAGA
AAAAGGAGCATTAACTTGACTATGTCTTTAGCTCCAGCCACCTTTTTAAGAGTAAATTGCTGGGC
ANGTGGGGGAGGGCTAGTCACGGAACGAACTGTAAAGCCGACCAGGTGTGAGGAGGGGAGGTG
ATAAAAAGATTACAGGNTGGAGGAAGTGGAGCCTGAGGAAGAATTGGGGACCTAACTTGGCGTG
GAGAAGGANGGGGAGAGGTCATATGGGTTTGTAGAAAAAGGAAGATTANACACNCTCTGCAACG
CCCTGGGGTTGGGACTTGANGGGGACAAGGTGGGGAAGGNAAAAAGAAANANAA

SEQ ID NO: 1867 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
AGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGGGGAAGA
TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAACTTGCTGCTGATGAAGATGATGAC
GATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGTGATGATGAGGAAGCTGA
AGAAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAAGTCAA
ATCANAATGGAAAAGACTCANAACCATTATCAACACCAAGATCAAANGGACAAGAATCCTTCAAT
GAAACAANGAAAAAATCCTNAAACACCNAAANGANCTATTTCTNTTNAAGACATTANNGCAA
AANTGNAGCTANTTTNTAAAAAGCGCATTGACAGTCCTGGGC

SEQ ID NO: 1868 ACGCGGGTATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAA
AAGGACCTCAGCAATGGAGAATATCCCCATCATCAAACTGTCATCACTCTGCCGCACGTGATTGT
GGAGAATATCCCTCTCCATGTGAATGCAGATCTGCCGTCATTTGGGCGTGTGAGAGAGTCGTTACC
TGTCAAGTATCACCTACAGAATAAGACCGACTTAGTTCAAGATGTAGAAATTTCTGTGGAGCCCA
GTGATGCCTTCATGTTCTCAGGTCTCAAACAGATTGCGATTACGTATCCTCCCTGGCACGGAGCAGG
AAATGCTATATAATTTCTATCCTCTGATGGCTGGATACCAGCAGCTGCCATCTCTCAACATCAACT
TGCTTAGATTTTCTAACTTCACAAATCAGCTGCTCAGGCGTTTTATACCTACCAGTATTTTTGTCAA
GCCACANGGTCGGACTCATGGATGATACCTCTATTGCTGCTGCATGATGTTCAAACCGGCCCTTG
GCTGTTGTTACAAAAATGTTTGGGCANAGCTATGCANGNGTTTCANT

SEQ ID NO: 1869 ACCGGGGGAGGCAAGATGGCGGCAACCAAGAGGAAACGGCGTGAGGCTTT
GCAGTTCAGGCGAAGAAGCCAAAAAGAAACGAAATAGATGCGGAGCCGCCAGCTAAGCGGCACG
CCACAGCAGAGGAGGTGGAGGAGGAAGAGAGGGACCGGATCCCAGGCCCGTTTGCAAGGGAAA
GTGGAATAAAGGAACGGATTCTCATCTTTCTTCCAGAGGAATAAATTTAGAACAAAGACATTT
AATGCAGGACTTGAGAATGTTGATGCCTCATTCTAAAGCAGATACTAAATGGATCGTAAGGATA
AGCTATTTGTGATTAACGAGGTTTGTGAAATGAAGAACTGTAATAAATGCATCTATTTTGAAGCTA
AGAAAAACAGGATCTCTATATGTGGCTTTCAAATTCACCTCACGGACCATCTGCTAAATTCCTTG
TTCAAAATATTTCATACCCTCGCTGAAGTGAAGATGACTGGAAACTGTTTGAAAGGTTCTCGGNCCC
TTTTGTCTTTTTGACCCCTGCTTTTTGATGAATTACCACATTATTGCTTTGTT

SEQ ID NO: 1870 ACGCGGGGCTAAGTGTTTCCGGTGGATTCCCAGGGACTGTCCGAGGTGTGGA
CTCTGCCTGCCTACCTGGTCTGGGAAGATATTCTACCATATCTCCCTAGAGCACGAAATCCTGCTG
CACCCGCACTACTTCGGCCCCAACTTGCTCAACACGGTGAAGCAGAAGCTCTTACCAGGAGGTGGA
GGGGACCTGCACAGGGAAGTATGGCTTTGTAATTGCTGTCACCACCATTGACAATATTGGTGTCTGG
TGTGATCCANCCAGGCCGAGGCTTTGTCTTTATCCAGTTAAGTACCTCGGCCGCGACACGCTAA
GGCG

SEQ ID NO: 1871 AACAGTTGGAGTCTGTGTGTTTTCTTGAATGTTTGAGACAGCTTCACCTTGAA
CTTTGAATTTCTCAGCAGCTGCTAGTTGTGCTTGCTGGGATAAATCTTCGATCTTGCTTCCCCAAA
AACTATGTAAGTACTGGCTTTTCAAAAAACAGAACAAAAAAACCCAAAAAAGTCTCTCACAC
ATAAGCCAGGTGGACCTGAAAGAGCCAAGGGGCAGGAACAATGGCTGTTTTCAGCAGCTACTCAAT
AGCGAAGGGTCAGCGTCCCACTCCCATGCCTTGGCACCGCATCAGATGTCCTGGAGCCCTTGATAC

CATCCTAGAAGGCTTTGTTTGAGGCTCCTTAATAAAAGAGGGCAAGGCGAAGAGAAAGAAGACCA
GGACAGCCAGAAGCAAGGACCACTGGACGCCTTGCCAGGTGCCTGCATCTCCACAAGCAGGACC
TCATGGTGGTGGGTTCGGGTCTAGANGGAANGNTCTGCATGTCTCCCGCGTACCTCGGGCGGGA
CCACGCTNAAGGGCG

SEQ ID NO: 1872 ACTTTTTTTTTTTTTTTTTTTTTTGGTAGTTCTCACAGTTTAATAGAAAGAATGCA
TTTTTTTGGTATGCAGTTCCTTTTAGAAATAACAAAATAGAAAATGAGTTCAACCATTGCTTTATA
GAAAACAGGGAAATGTCCTTCAATTGAGCATTCTTTTCTCACATTAATAAAGTCTGCACACACC
TCCTATGTTAACAGGAAATAGGAATTTAGATAACAAATGTGAAAAGTTGAAATAATCCTGACAA
ATTTTTCAAATCAATTGTTGAAAATATTTATTTAGAAAAAAATATTTAGTTGGANAACAGACGAAN
CCNNAGAAAAACACNCTTCNTGTNAACANCNGAACACTATGCTAAGTTTAGTTCTACAATNAAAN
GCCACACAAATCTGTGGNGGCTAAGGATGANGATTCCNAGNAAAANGANAAAAGAANATTTGA
NAGAGAGGNNGAATNTAACCTTTGCTTACTGCAGGNCTTGNNTGGGAGGGGAGAACCTCTGGA
AAATNATTAAGTTTA

SEQ ID NO: 1873 ACGCGGGATCCAACCCTGAAGATATTTAGAGATGGTGAAGAAGCAGGTGCTT
ATGATGGACCTAGGACTGCTGATGGAATTGTCGGCCACTTGAAGAAGCAGGCAGGACCAGCTTCA
GTGCCTCTCAGGACTGAGGAAGAATTTAAGAAATTCATTAGTGATAAAGATGCCTCTATAGTAGG
TTTTTTCGATGATTCAATTCAGTGAGGCTCACTCCGAGTTCTTAAAAGCAGCCAGCAACTTGAGGGA
TAAC TACCGATTTGCACATACNGAATGTTGAGTCTCTGGTGAACGAGTATGATGATAATGGAGAG
GGTATCATCTTATTTGCTCCTTACATCTCACTAACAAAGTTTGAGGACAAGACTGTGGCATATACA
GAGCANAAAATGACCAGTGGCAAAATTAATAAAGTTTATNCAGGAAAACATTTTTGTTCTGCCCT
CCATTGACAGAAGACAATAAAGATTTGATACAGGGCAAGGACCTACTTTTGCTTACTATGNATGT
GGGCTTATGAAAAGAACGCTTNAANGGTTCCAACCTACTGGANAAACAGGGGT

SEQ ID NO: 1874 ACGCGGGGACCGCGGGGCGGACGGGAGCGAGTATGTCCGCTCTGACTCGGCT
GGCGTCTTTCGCTCGCGTTGGAGGCCGCCTTTTCAGAAAGCGGCTGCGCACGGACTGCTGGAGATGG
TGGAGTCCGTCATGCCGGTGGTGGTGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

SEQ ID NO: 1875 ACGCGGGAGGAACTGCTCAGTTAGGACCCAGACGGAACCATGGAAGCCCCA
GCGCAGCTTCTCTTCTCCTGCTACTCTGGCTCCAGGTTCCACTGGAGAAGTAGTGATGACGCAG
TCGCCAGCCACCCTGTCTGTGTCTCCAGGGGAAAGGGCCACCCTCTCTGCAGGGCCAGTCAGACT
ATTAGCACCAACTTAGCCTGGTATCAGCACAAACCTGGCCAGGCTCCANGCTCCTCTTGTGTTGGA
ATAGACACTAGGGCCACCGGCATCCCAGCCAGGTTCACTGGCAGTGGGTCTGGGACAGAGTTTAC
TCTACCATCAGCAGTGTNCANTCTGAAGACTTTGCAGTTTATTATTGTCAACAAGTATAATAAGT
GGCCTNGGGTCACTTTTACGCCCTGGGACCAAGTGGAGATCAGACGAACTGTGGCTGCACCATCT
GTNTTATCTTCCGCCATCTGATGAGCCAATTGAAAATNTGGAACCTTGNCTCTGTTGTGGGCTGCG
TGAANAACCTTCTATCCCANAGAAGGGC

SEQ ID NO: 1876 ACGGATGTGGCAGCGAGAGGACTAGACATTCCTGAAGTCGACTGGATTGTTT
AGTATGACCCTCCGGATGACCCTAAGGAATATATTCATCGTGTGGGTAGAACAGCCAGAGGCCTA
AATGGGAGAGGGCATGCCTTGCTCATTTTTCGCCCCAGAAGAATTGGGTTTTCTTCGCTACTTGAAA
CAATCCAAGGTTCCATTAAAGTGAATTTGACTTTTCTGGTCTAAAATTTCTGACATTCAGTCTCAGC
TTGAGAAATTGATTGAAAAGAATTACTTTCTTCATAAGTCAGCCAGGAAGCATATAAGTCATACA
TACGAGCCTATGATTCCCATTTCTCTGAAACAGATCTTTAATGTTAATAACCTAAATTTGCCTCAGGT
TGCTCTGTCAATTTGGTTTCAAGGTGCCTCCCTTCGTTGATCTGAACCGTCAACAGTAATGAAGGCA
AGCAGAAAAAGCGAGGAGGTGGTGGTGGATTGGCTACCCAGAAAAACCAANAAAGTTGAGAAAT
CCAAAATCTTTAAACACATTTAGCAAGAAATTATTCTGACAGCNGGC

SEQ ID NO: 1877 ACGTTGAAGGACTTTGCTGGGTTCTGAGTGTTTGTCCCTCACATAGGATTCCA
GAACAGTGCTGCTGGGTTATGAGCGTTTGTCCCTCACATAGGATTCCAGAACACTGATACTAAGGT
CTGAATGTTTGTCCCTCAGATAAGATTACAGAACACATCTACGAGGGTCTGTATGATTGTCCCTCA
CATAGGATTCCAGAACACAGTGGCTGGGTTCTGAGTGTTTGTCCCTCATATAGAATTTAGAAACAC
TGCTACAAATTTCTGAACGTTTGTGCTCACAGAGGATTCCAAGAACACTGTGGCTGGGTTGTGTT
TGCCCCCACATAGGATTCCANAATACTGCTGCTGGGTTCTGANTGTTTGNCTCACGTANGATTCC
CAAAACACTGCTATGANGTCTGAATATTTTGCTCTTAAAGGATTCCANAACACTGCTGCTCA
GTTGTGTTGNTTGTCCCTCACAAGGAGCTCCAANGNACTGNTGCAGGNTTTGAAANNTTTTCCC
TCACATAGGAATTCAGAACACTTTTTACNANGGTCTGNAATGT

SEQ ID NO: 1878 ACAGATGGTGATTACAGAAGCCCAGAAGGTTGATACCAGAGCCAAGAACGC
TGGGGTTACAATCCAAGACACACTCAACACATTAGACGGCCTCCTGCATCTGATGGACCAGCCTCT
CAGTGATAGATGAAGAGGGGCTGGTCTTACTGGAGCAGAAGCTTCCCAGGCCAAGACCCAGATCA

ACAGCCAAGTGC GGCCCATGATGTCAGAGCTGGAAGAGAGGGGCACGTCAGCAGAGGGGGCCACCT
CCATTTGCTGGAGACAAGCATAGATGGGATTCTGGCTGATGTGAAGAAGTTGGAGAACATTAGGG
ACAACCTGCCCCCAGGCTGCTACAATACCCAGGCTCTTGAGCAACAGTGAAGCTGCCATAAATAT
TTCTCAACTGAGGTTCTTGGGATACAGATCTCANGGCTCGGGAGCCATGTCATGTAAAGTGGGTGG
GATGGGGACATTTGAACATGTTTAATGGGTATGCTCANGTCAACTTGACCTGACCCCATTTCTCTGA
TCCCATGGCCAGGTTGGTTGTCTTATTGNACCATACTCCTTGCTTCTCTGA

SEQ ID NO: 1879 ACGCGGGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGCGAG
AGAGCGAGAGTCCATCTCAAGAAAAATAACAAAAAAGAAAAAAGAAAAAAGAAAAAGCTCT
CTGAAGTGGGCTCCCTTCTGAGAGTGAGGAGGAGAGCCGGGCACAGTGGCTCACGCCTGTCATCC
CAGCACGTTGGGAGGCTGAAGCGGGAGGATCGCTTGAGGCTATGAATTCAGACCAGCTTGGGCA
ACATAGTGAGACCCCATCTCTACAAAAAATATAAAGTTAGCCAGGCATGGTGGCGTGTTCCTGT
AGTCCTAGCCACACTCAGGAGGCTGAGGTGGGAGGATTGCTTGAACCCGGGAGGTGGAGGCTGCA
GTTGAGCCGTGATTGCACCCCTTGCAATCAAGCCTGGGTGACAGAGCAAGACCCTTGCTAAAAAA
AAAAAAAAAAAAAAAAAAAAAGTACCCCGGGGATTTTTGTGAAAAANACNAAAACTGAACCG
GTTGTGGCCGCGTTTCCNACCTCCANCAGAAATTGGGTTTTTTTTNCGCANAACCCC

SEQ ID NO: 1880 ACATCCATAAGCCAATTCTTCACTAATTAACAAGCATCAAAAGTTCCAAGT
CCAAGACCTCCACAGTTCTCTGGAATGTGTGTGTTTCATTAAACCAAGTCCAGGCTCTTCTAATT
AGGGGGAGTGGATATTCACCAGTTTTATCATATTCTGCAGCCACTGGGATGATTTCTCTCTGGCA
AATTTACGAGCAGTAGCTTGAAATCTTTCTGCTGTTCCGNGAACTCAAACTAAATCCCAATCCT
GGTTCACGTGTGCGATTGGCTTTGTATGCTGTGATCTCCAATGAAAACGAGAAATACTTCTCAGG
ACCCTGCAGCATCGCCCGAACCCCGCTGCCATGTTGGCTCCCGTTCCGGCCACTCGGACAATAATA
CACGGGTCACGGCCTTGACATACTCCCCGAACGCGGGACTCCTCTGGTCCCCCCCCGNGTACCTGC

SEQ ID NO: 1881 ACTTTGTAGAGATTGACTTCCTAAGCTACTTAAGACAACTTGACCCACTAAGA
AAAAATGTAGAACCATTTGGAAAAATGAAATTTAGTAGTTCCAAGTTTCAAAGAAATGTCAACA
TTTTATTCCATTCAATAAAGAACAAAACCAATAGTGTTTTTATTACTTTCATCTGAAACATTCCATG
TTTTAATCTGAGCCTTGACAGACTTTCATTTGGAGTTTGAACCCGTTTTGGTTGCATTTTCATTTTGG
AGAACTTAATTAACGTGAGATTGGCAATTGAAATGCAGGTGCAGTTTCTGTTAATGTCATGCTGT
TGTTTAGGTAATAAGAAATATTAAGTAATTGGCTTTAGATTTTGTAAATTTTTCCTGAGTTCCTG
CTAGATTTTCGTATTCTAGTAGTCAATGTATTTTCAGTGAAATGCAAAAATATTCCCGTTATCTTTGA
CCAGTATTAATTTTTGAGATCTTACCCGCTTGTCACCTGAATCCCGTGATTGTCTACATCTCTGGT
ATAAGCAACATTTTGAATTTTGAAGTGTGTAAGACCATCTCT

SEQ ID NO: 1882 ACTTTTITTTTTTTTTTTTTTTTTTTTTTGGAAAAAGTAGTTAGCATTTAATGAAA
CTCCCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCCCAACACTNNTAATCTTCTCTCAG
CTCTTCTGCTGAANAATTTGGCCTTACGATGACAGGCTGCTTTGGGAGCTTTCCCTTCCCANAAC
TTGTAGTAGCCCGATCGCNCACATCAATGATGGGAGCAGCCCCAGTCTTGTTTTAGCAGCATT
CACCCGTGNTGTTCACTGACCAAAGTCCACAATTTGTCAAGGTTGACAGTTGGGCAAAAGCTCTG
GTTCTCTTTAAGTGGGGGN

SEQ ID NO: 1883 ACTTTTTTTTTTTTTTTTTTTTTTGCATTTCTTTTAGAATGTTTGGTCATTAAC
AACTTTTAACTTATCTTCTCTTCTAGCCCTTAACAGACCAAGTCCATTCTATTTGGAAATA
ACAAGAAGTTGATCAGATTATTAATCTTGGAAACCTCATTTTACCTTATAAAGGGNTAAGTTTC
ACGTGCATATTCTCTTACAAATGTAGTATAAATGTTATGGATAGATATAAGGAAATATTGGCATAG
TATAGGNAATTAGTGAAAAAGACACAACCTTCCCAAACCATAATNAAAGATTAAACNTGAAACTTTT
ACNCTACTTAAAAAAT

SEQ ID NO: 1884 ACACAAAGAGGGGGTGGGTGTCGGATGCAGAGTGTGTGGCCTGATGCTCCAC
GGCGTGCAGGACGGGGGGCTAATAGTAGGTTTCTTCTCCACCCAGCCGCCAGGGCGTGCCTGA
TGATGAGTTTCTGACTTCGTCATATACGAAGATGAGAAGAGAGTAGGGGAAGGCACAGAACCCAC
CAGGTAGGTTTGGGGGATACATCCTAAGAGCAACCGCCATTCCAGGGCAGTAGGAAAGGAAA
GCAGCCAGGGCTGTCTCTTCAAAGAGGGCCAAATATCAAGATCTTGTCTTCATCCCCTGCTGGAAG
ACCGAATCTCTCTGGCTTACAGATGACCAANTCGGCCACTGCACCACCACGATCTGACNAAGA
AGGCTGTGTGGCAGGTGAACCTCACCAGTTTCTCTGNTCATAGGGTCCACTGGCTGCCGTAGC
TNTCTTTCCANATCGTTGATCCAACGGTCACTCCANTCCANTCNGATGGCCCAAACANGTNGAAAT
TGGGAGGGAAACCCGTTTTATCCNNAATTNACTAAAGTTAANTTATAGAA

SEQ ID NO: 1885 ACACTGTTGGTGTTATATGGGGATGGGGTCTCGGTAATTTTGTATTATTATTA
TGTTTATTATTATGTTTATCATTAATTATTCAATAAATTTTTATTTAAAAAGTCAACCTACTTAGA
AATCTTCTGTGGGGGTGGGAGGGACAAAAGATTACAAACCAAACTCAGGAGATGGTAACACTG

GAATTGATAAAATCACCTGGGATTAGTTGTATAACTCTGAACCACCAAACCTCTGCTATCAAGCCT
 TGCTACAGTCATGGCTGTCCAGAAAGATTTACAGTTATTTTTCTGAGAAAGGATCCATGGGCTTTA
 AGAACTTCAGAACTTTAAGAACTTCAGAAGTTCCTAAGTTGCTGAAGCTCAAGTAACGAAGTTGA
 ATGCNATCAAAAAAAGAATACCANGGAGTCAAAGGCTTGAGAGGCACATTCTTATCCTAAAGTGA
 CTGCTCAAACCTGCCGAGACCAAGTTAATTACTGAAGATNNAAGAAGACCAAAATGCCAGATTA
 CCGNCCTTATTTCTATAACTCAAAAAATTTTTCTNTTTNTTTGAAGTAAGA

SEQ ID NO: 1886 ACGCGGGGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTC
 GCGGCCGTTTCANAATTATAAGGCTGTCTGCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTCA
 GCATCTTTAGTTTCAGCATCCTTGGCTGTGGAATATGTAGATTCACTTTTACCTGAGAATCCTCTGCA
 AGAACCATTAAAAATGCTTGGAACTATATGTTGAATAATTATACAAAGTTCCAGATTGCAACATG
 GGGATCCCTTATAGTTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGATTTTTATTTCATTTA
 TACCTTATATGAAAAATACAAAATTCAAAAGGATAAGCCAGAGACATGGGAAAACCAATGGAA
 GTGTTTTAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACCTATTATT
 TTACAGAAGTATTTCAATATTCCTTATGATTGGGAAAGAAATGCCAAGATGGTATTTCTTTTGGCA
 AGATGCTTTGGTTGNTGCCAGTCATTGAAAAATACTTTGGCACT

SEQ ID NO: 1887 ACAGTTGAAGGTTGTGACCGGACATTTGTATGGCCAGCTCACTTTAAATACCA
 CCTCAAGACTCATCGAAATGACCGCTCCTTCATCTGTCTGCAGAAAGGTTGTGGGAAAAGCTTCTA
 TGTGCTGCAGAGGCTGAAGGTGCACATGAGGACCCACAATGGAGAGAAGCCCTTTATGTGCCATG
 AGTCTGGCTGTGGTAAGCAGTTTACTACAGCTGGAAACCTGAAGAACCACCGGCGCATCCACACA
 GGAGAGAAACCTTTCTTTGTGAAGCCCAAGGATGTGGCCGTTCTTTGTGAGTATTCTAGCCTC
 CGAAAACATCTGGTGGTTCCTCAGGAGAGAAGCCTCATCAGTGCCAAGTCTGTGGGAAGACCTT
 CTCTCAGAGTGGAAGCAGGAATGTGCATATGAGAAANCATCACCTGCAGCTGGGAGCAGCTGGGA
 GTCAAGAGCAGGGAGCAAACCTGAGGTGCTTGCTGAAGGATCCCCACNGTTTCTGTCTTTCACTGC
 CTGATGTGACACNTCANCCTGGTGACCATGCCAGNCAGGGGAGGCAATCATT

SEQ ID NO: 1888 ACTCGCCACGATGAGCAGCACCTTAGCTAAGATCGCGGAGATAGAAGCAGA
 GATGGCTCGGACTCAAAAGAACAAGGCCACAGCACACCACTTAGGGCTGCTTAAGGCTCGTCTTG
 CTAAGCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCAGGAGAAGGCTTT
 GATGTGGCCAAGACAGGTGATGCTCGAATTGGATTGTTGGTGTTCATCTGTGGGGAAGTCAACA
 CTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCATACTCTGACCACT
 GTGCCTGGTGTCTCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCCANGTATCATTGAA
 GGTGCCAAGGATGGGAAAGGTAGAGGTCTGCAAGTCATTGCAAGTGGCCCCGAACCTGTAACCTTGAT
 CTTGATTGTTCTGGATGTCCTGAAACCTTTGGGACATAAGAAAGATAATTGAAAATGANCTGGAA
 GGCTTTGGCATTGCTTGAACAACAACCCCCCAACATTGGCTTTAAAAAA

SEQ ID NO: 1889 ACGCGGGGAGCAAGCTCCAGTGCTACGTGTCCCTGGCATTTTAGGTGTGCGTT
 GGGTAGGCAGTCATGGATCAGGTAATGCAGTTTGTGAGCCAAGTCGGCAGTTTGTAAAGGACTC
 CATTGGGCTGGTTAAAAGATGCACTAAACCTGATAGAAAAGAATTCCAGAAGATTGCCATGGCAA
 CAGCAATAGGATTGCTATAATGGGATTCATTGGCTTCTTTGTGAAATTGATCCATATTCCTATTAA
 TAACATCATTGTTGGTGGCTGAATACATTTTGAAGAGAGTTTTTCATCTTAGAGATTGGTGAACA
 AGTGTGAGGGTGTGAGAACTCACAGAATACAAATTTGCCTGTATGTTTTGTGGGTTTTTTTTTCC
 TTTCAANATGTTTTCTATTTCTAAATTAAGTAANTTTNANCCCCNCAAAANCNTANNCTTTNCA
 ANAAACAAAANANTTCCTTGCCCGGGGCGNGCCGNTTANAAAGGGCAAAATCCNNNCCNNCNT
 GGCCGGCCGTTACTTAGTGNNTCCNANCTTGGGNCCNACCTTGGNCGAA

SEQ ID NO: 1890 ACGCGGGGAGCAAGCTCCAGTGCTACGTGTCCCTGGCATTTTAGGTGTGCGTT
 GGGGCTGCAAGAGGGAAGGCTTAGCCATGTCGTCTTGTATCAGAAGGGTGATCAGCACCGCGAA
 AGCCCCAGGGGCCATTGGACCTGCAGTCAAGCTGTATTAGTCGACAGGACCATTACATTTCAGG
 ACAGATAGGCATGGACCTTCAAGTGGACAGCTTGTGTGAGGAGGGGTAGCANAAGAAGCTAAA
 CAAGCTCTTAAAAACATGGGTGAAATTCTGAAAGCTGCAGGCTGTGACTTCACTAACGTGGTGAA
 AACAACGTGTTCTTNTGGCTGACATTA

SEQ ID NO: 1891 ACTTTTTTTTTTTTTTTTTTTTTTTTGTATGCATTCAAATATTTATTGAGCAGCTAAGG
 AGATACAAAGGCGATTAAAAACATTGTGAGGTGAGGCAAATGCACAAGTAATAGAAAGCAAAGG
 GCAAGGTTCACTGAATCACAGCAGTCANAANAAAGTGCTTTAGGGAACCAANAGATTGTTTCCAG
 CCTGAANAGGCATGGGTGGCAAATCANAAAAGGGGATTGAGATTAAAAATAGAAGACTTCAGTCT
 GGATTGTTGATGACACTCAGTATGGACTATATTTGTCTCTCTTTCTCTTTCTCCCCATCTTTGGGCT
 TAATTTACATGTAGTCCCCAGGANAA

SEQ ID NO: 1892 ACTTAGAAGTAGAAGAACATAAGATGTATTTCTGACTAAAACAAATGGCTCT
TTCACATGTGCTTTATTAGACTCTGGGAGAGAAAATTAACCAAGTGCTTCAGAACAGGTTTTTAGT
ATTTAATTCTTCACGGTAAGAAAATGAAGTTCTAATGAAGTGTCTCCCAAGGTTTTAAATTTGT
CAAGAGTTATTCTGTTTGTAAAAAATAAGAAACCTCTTTAAGCAATAGATTTTGCTTGGGTTTTCT
TTTTTTAAAAACATAATACTGTGCAGGCAAGGCACTGTAAAAGTTTAAATTCCTCCAGAAGAACC
AGTGAAGAATTTAAATTTGGCGCTACGATCAAACTACTGAATTAGTAGAAATAATGATGTCTA
AAGCTTACCAACAAAAGAACCCTCAGCAGAATAACAAAACTTTGCTCAGGACATTTGAGGTCAA
ATTGAAGACGGAAACCGGAAACCGTTTTCTGTANGCCCCTAGAGGCAGATCAGGTAAAGCATAC
ATAGTNGAGGGAAAGGGAGAGAATGGAAATAAACTCAATATTATGCAGATTTATGCCTTATTTTT
TAGCCTTTTTTAANGGTTGGGTCTTTCANGCTGGTTTTTGGTTTTGNATTTAAACCTGGTNTAGTTT
NAATTTAACCTGGGGGGATTANGTTTTTATTTTTTAAACTTACAATTNAATCTTTTTTTCTTTTGGG
G

SEQ ID NO: 1893 ACTGGAAAATAGCAAGGATGCTCATGTTGGGAAAAGAAAAGGTGAAAAA
AAAAAAGTTGATGAATAAAAGGCCAGCCAAAGAACAGGAGTAGGCTCATCAACCGGGAAT
TGGACAGCAATAAAATCAGAAAAGCACTTACCTTTTCCAGGGAATCACTCCGATAAGATAATCAT
CAATCCCTTATTTGGTTTATTAATAGCATCAGTCTCTGAATATTTTATAAGGAATTATAAGGAATAT
TTCAAGACAAATTAGGTAATAAAAGCTTTCAAACACTTTATTTAAATGTGAAAGACTTGATGATTC
AAAAAAGTTTTTTTTTCAAAAAAAGGCTCTTGGAAGTGAACATGCAAACATAATTCATATGTTTAG
GATTATCCAGAATGAACACATTATAGAGTTAAAATTAGTTACGCCTATTACAATTTAAACTCAAG
CCATATAATTTAAAAATTATTANACCTATGCAACTTATTATGAAAGTAGGATTTTTAAATTCCTTTAC
AAGTTCATGTGATGCTTTTTACCTCAANAAATGGNAAACCCATAATTGCATTACTCAGGCCNC
ACTTCCCTTTTGTNCCCTGCCCCGGGCGGC

SEQ ID NO: 1894 ACGACGTCTCATCTGGGAAAAGAATCTAAAGTTTGTGATGCTTCACAACCTG
GAGCATTCAATGGGAATGCACTCATACGATCTGGGCATGAACCACCTGGGAGACATGACCAGTGA
AGAAGTGATGTCTTTGATGAGTTCCCTGAGAGTTCCCAGCCAGTGGCAGAGAAATATCATATATA
AGTCAAACCTAATTGGATATTGCTGATTCTGTGGACTGGAGAGAGAAAGGGTGTGTTACTGAA
GTGAAATATCAAGGTTCTTGTGGTGCTTGCTGGGCTTTCAGTGCTGTGGGGGCCCTGGAAGCACAG
CTGAAGCTGAAAACAGGAAAGCTGGTGTCTCTCAGTGCCAGAACCTGGTGGATTGCTCAACTGA
AAAATATGGAAACAAAGGCTGCAATGGTGGCTTCATGACAACGGCTTCCAGT

SEQ ID NO: 1895 ACGCGGGGGCCCGAGCAGCGGTGACAGGAACCTGGAGCGAAGATGTAGCCC
CAACCTCTCCCGAGAGGTGCTCTACGAAATCTTTCGCTCCCTACACACCCTGGTTGGACAGCTTGA
CCTCAGAGATGATGTGGTGAAAATTACAATCGATTGGAACAAGCTCCAGAGCCTCTCGGCATTCC
AGCCTGCATTGCTCTTTAGTGCACTTGAACAACACATTTTATTTACAGCCTTTTTTAGCAAACT
TCAGTCTCCGATTAAAGAGGAGAATACAACCTGCTGTTGAAGAGATAGGAAGAACAGAAATGGGG
AACAAAAATGAAGTAAATGACAAATTTTCCATTGGCGACCTACAAGAGGAAGAAAAGCACAAAG
AAAGTGATTAAAGAGATGTGAAAAAGACACAGATCCATTTTGATCCAGAAGTAGNTCAGATAAAG
GCTGGAAAAGCAGAAATTGACAGACGAATATCTGCATTTATTGAAAGAAAGCAAGCTGAAATCAA
TGAAAACAACCGTCAGGGAATTTTGCATGTTATTGATTGNAATCAAGAAAAATAGGTGGTGCAAGA
ACTGATGCGATTTTTTACCCCTTACCCCGGGATTTAAAAAGTCACCGTAAAAAGTTTTCTAGAAGT
TGGTGAATACCATAACCGNCCNACAGACTTNNAACTTGAAGGGAATTTCCANGGGTCAGGGTCNAT
AAACCTAANAGC

SEQ ID NO: 1896 ACTCCAGTTGCTGGATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTTCCA
TCAATCATATCTCACAGACTGTGGATATTCATAAGGAGAAAAGTGGCACGAAGAGAGATTGGTATT
TTGACAAACAAATAAGAATACATCAAGAACCTCACAATAATAGCACCTGCGAATATGGAGCGCCC
TGTAAGGTATATTCGGAAACCTATCGATTACACAGTTCTGGATGATGTGGGCCATGGTGTCAAGCA
TGGAATAAACCAGCCTGCAAGAACTGGCACACTGTCGAGAACAAATCCTCCTACTCAGAAACCGC
CAAGTCTCTCCATGTCAGGCCGGGGAACACTGGGACGGAATACTCCTTATAAAACCTGGAACCT
GTAAACCCCCAACAGTTCCTAATGACTATATGACCAGTCTGCTAGGCTTGGAAGTCAGCATAGT
CCAGGCAGGACAGCATCTTTAAATCAGAGACCAAGGACACACAGTGGAAGTAGTGGAGGAAGTG
GAAGTCGAAGAAAACAAGTGGTAGCAGTAGTATTGGCATTCCCATTTGGTGNGCCTACACCTTCGC
CACCCACTATTGGACCAGCAAGCCCCGGGCTCAANCTTCTGGGTCCAGTATGGGCAACAATGACCA
GGCCAGATNTTGNACAACAACTTNTACTACTTTTTTCACATTTTTTTTTGGNGGGATACAAGACN
A

SEQ ID NO: 1897 ACGCGGGACTACACTCCAGCTTAGGAGATAGAATGAGGCCTCATCTCTAAAA
AAATAAATAAATAAAAAATGAAAGAAACAACATATTTTGCAGGTTGCCACCCTGGGGTGACCCCT
TTTCACTAATTAGGTGCCATGATGTGCCATCCCAAACTTACCCCTCTCTCTCCATAGACTTCTCTGG
TCTTACTTTTTCTGAGACTCAGAACTTCCCTGCCAAAGTCACATTCTTAGCAACAAGTATAATTTTG

GCTATTTGAAAAAGAATAGAATGCAGCCCAAAGCAGATGGAGGGAAATGACAGTCCGCAGTCAG
 CCAGGCCTCACCAAAGAATACAGGCCCTCTGCCAGGTCCCTCCTACCCTGGAGAAATCTGAGTCTT
 CAAATTGCCAACTCCCTGGACTGGTCTAAGTATTTTCTGCCAGCGTTGGAATCCAGCCTCACAAC
 AATCCCCTAAGCAATTTCTCAGTTCCTCTCACTTCCTCTGGTTCCTTCTCAACAAGCCATAATTCT
 TTATAGAAATAAGTTTTTTGCAAAGCCTTCATGTTCTGACATGACCTAGAGCCTCAGACTCATGTTT
 ACCCCATTGCTGACCTCAAACAGGCCGGGGGAATCAGAAAAAAAAAAAAAAAAAAAAAGTA
 CCTTNGNCGNGACCCCCCTTAAGGGCGAAATTCCCAACACACTGGGNGCCGGTTNCTAGNNGG
 AT

SEQ ID NO: 1898 ACTCTGGATCCCAAGGTGACTGGTTGTTTAATCGTGTGCATAGAACGAGCCA
 CTCGCTTGGTGAAGTCACAACAGAGTGCAGGCCAAAGAGTATGTGGGGATTGTCCGGCTGCACAA
 TCTGATTGAAGGGGGGACCCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCG
 ACCCCCACTTATTGCTGCAGTAAAGAGGCAGTCCGAGTGAGGACCATCTACGAGAGCAAAATGA
 TTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTTGTGAGGCTGGCACCTACATTC
 GGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGGAGCTTCGGAGGG
 TTCGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTCANT
 GGCTGTATTGATAACCACAAGGATGAGAGTTACCTGCCGGCGAGTTGTTTACCCTTTGGAAAAGCT
 TGTGACATCTCATAAACNGCTTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGGC
 CCAAAATTATGCTTTCAGGTGTTTCTTCGATATTGAGGACCGGCATTGGAGGGCAAATCAAGGAA
 AAATTGTGGGTNTACCCCCCAAAGGGAGAAAGCCAATCNTNTATGGNCTTTTGCANTTAAATG
 A

SEQ ID NO: 1899 ACAGAAGAAACAGAATTGGCAAATGTTTCAAGTTGACAATTATGAAAGCTGGAT
 AAACAAATACCTGCAGGGTTTATTTTTACTACTTTTCTACTATTGAATATATCTGATATTTATATAA
 TAAAAAGTTTAAGTTACCAAAATCTCTTCACTGTCTTTTTTTTTTTTTTGAGATTTCTCTACTCAC
 CTCAAACCCCTCTAAGACTGCCAAAAGCTACGCCACAATCAAATTCTGCAGGTTCTTTCAAATATCA
 TTTCACTTAGCTCTTCTACAATAAAGCCTCACTACTCAAAGTATGGTCCTTANAATAGCGTCATCAT
 AATTGTTTGGAATGTTATTAGAAAAATAAAATGTTTTTCTTCTGATAATTGAAAAATGTTCCCTCTCA
 AAGCATTTTACCAAAGAAGACAGTCAAATAACCAATAAACATATAGAAAAGTGTTCAAGTTAATT
 ACTTGTGAGGGAAATGCAAATTATAACCACAAAGAGTGTCTCTGCCATCCACCANAATGGCTTAA
 ATGAAAACACAAAACAGACATGTCAAGCATCGATAATGATATGCAGCAATGGGAGTCATGCNCTA
 NGAATGGGCAAACCTGGTAAAACTAGAAAATAATTGGCAATAGCTACTAANGGTTGGACAAATGT
 GTNTNTNTACCANCCCANCAATTCCTTTCCTANAAANTTCCCCCCCAGAAAGGGCATT

SEQ ID NO: 1900 ACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCTCATTACG
 TTTCTGGACAGCCGCACACGGATTTCGGTATGGCACATTCTTATTCCTTTGGCCCAGACAGCTTTG
 TTGAGCCTGGTGTCAATGCGCACATCTGGAGTTCCTCATCTCCTTCATGGCAAATTTCCGAATCTCTT
 TGAGTGGCCGAGGTGCACGCTTCTTGAAGCCCACTCCATGGATGCGCTTGTGAATGTTGATGGTGT
 ATTCTCGGGTTACCACTTCGTTGATGGCAGAACGGCCCTTTTCTTCTCGCCACCCTTCTTTGCGGG
 AGCCATTCTGCAGCGTCCAAGTTGAAAGGAAGCCCCGCGT

SEQ ID NO: 1901 ACCGCGGGGGGGCGACTGAGCGGNCAAACGGAAGTGTNGGTTNCGGTCTGA
 GACATNACCGCCAAGCTGGGCATCGGGGAGATGGCCGAGACTGANCCCAAGACCGTGCAGGACC
 TCACCTNNGTGGTGCAGACACTCCTGCAGCAGATGCAAGATAAATTCAAGACCATGTCTGACCA
 GATCATTGGGAGAATTGATGATATGAGTAGCGCATTGATGATCTGGAAAANAATATCGCGGACCT
 CATGACACAGGCTGGGGTGGAAGAACTGGAAAGTGAACAAGATNCCTGCCACGCAAAAGAGT
 TGAANGTTGCTAATAATTTACTTGAATCTGGCATTTTTCCAAGCCAANGAGAAGATCGAATGGC
 TTNTTGACGCTAACTACTATGTGTANACAAGGTINTATATTATAANGNTATGCNTTCTTATCACCT
 ANTTTATTAATTAAGTNTGTANAGNGNATTTCCCCCAGTTTCTTTGAACATGGTATNCTTCCACAT
 TCTCTGAATNG

SEQ ID NO: 1902 ACCTGGTTGGCCTGGTATCAGCAGCGACCAGGGAAAGCCCCTAACCTCCTGA
 TCTATAAGGCGTCTAGTTTGAAGAGTGGGGTCCCATCAAGGTTTCAAGCGCAGTGGAAGTGGGACA
 GAATTCCTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTAT
 AATACCTACCCCTACATTTTGGCCAGGGGACCAAGCTGGAGATCAAACGCAACTGTGGCTGCACC
 ATCTGTCTTCACTTCCCGCCATCTGATGAGCAGTGAATCTGGAAGTGCCTCTGTTGTGTGCCTG
 CTGAATAACTTCTATCCAGAGAGGCCAAAGTACTCCACAAGAAACAGAAGGAAGTCCAGTGGT
 AGCAAAAGCAATGTGAGGAGTGGGAAGAGAGTTCCAAGTGGCAGGATGGTCAACATTCGCATTTT
 CCAGCAAGAAGTCACGTAAGAATAGACAAGAGTCCATTGGATTTGGCAATCCTGATGTCAGGGTA
 AAGCTAATGGGTGGGAGATTAATTCCTAATTAAGTTCTTTCTTGACCTTAGTATGTGGGGGTTGCAA
 TTTAAAAGATTTCTGCATTCAAAGTTTCAAGTANTNNGAAGTNTTTGGGAAGGAGCCTTGGTNTT
 GGAGCCAACTTGCAAATGTTCTTTTNCATTTAANATGGNAAAATTCTTTTGAAGCCATTAAGGGA

AGGC

SEQ ID NO: 1903 ACTTTATAGAATTCACATTCACCTGAAGGTTACAAAAATCTGCTGGTATGTCA
ACATAGCAAGCACCTGGACGACCATAGATACTGCTTCTCACTGCCTTTTCAATAACAAAAGGAAT
AGCTTCTATGCTGCTTGGGCGGGCAGAGAACTTGGTATATAATCTACAAGCTTCAACCTGAGGAA
ACTCCTGGAAAGCTCCCATTGTTTCTTGGTTTCTTTCAGAGGAACCAATCACAAGCAAGGGCC
AGCAGTTCATGTTTGCATTTGCCATACCGCCCAAGGCATGGATGAGACCTGGGCCAGAAACAACA
AGGCAGACTCCTGGCCTGCTTGTGAGATATCCAATCGCGGAGGCAGCATAACAAGCCGCTTGCTC
ATTCTCATCCCGATGTACC

SEQ ID NO: 1904 ACACCGGGTGGCATTAAAGGGGTGAAGATGTCCCCCTTACGGAGCAGACCGTG
TCTCAGGTGCTGCAGTCAGCCAAAGAACAGATCAAGTGGTCACTCCTTCGGTGAAGACCTCACTGT
TCCTGGCTCTTCATCCTCTTCAAAAAATTGTCATGTCGCTGTGAATTTTCATCTAGTCCCAATC
GATGCTCTCAGGGTCATCTCGGGGATCAGAGGATCCTTAAATCTCCATTCTGTTTGTGGTTGCC
CCTCAACCTCCCCTACACCTTCTTATTCTTTTTCATTCTTCTTGCAGTTCTGGGAGTAAAGCTCCC
ANCATATTTANATNATAGGCGAGGGAAGCACCTCTTCTTCTAGACTGGATTATGCTCACATG
CTCCCTTGCCCTGACATTTTGTAAATTNNTGTGCCCTNTGCTGGNNGCTACNCTTNCANATTANN
AGTANGAGAAAGGAATGTGNATTANTAT

SEQ ID NO: 1905 ACCATCTTGACAGCATCCAGGGCAATGTTGCAAGCCAAAGATGACCACCGAC
TGATGGCTTTGGTAGTAATAGAGCTGTTGATGATGTTTCAGCATCATATCACTGTCACTGATGTGCA
CTGGGATACTTATTTCTTTAGGGTGCTGATCATATCATCCAATGCCTTGCGGTAAAGCACTGATCAC
CACTGTTGGGTGCATCTGCTGCTCCAGGAAGTGCTCAGCTACAGACAGCATTTCCCCTGCAAGAAT
AATTACTGATGTGGTCCCCTCTCCAACCTCTTCATCTGGGTCCGGCTAATTTTCGATCATGGACTTG
GCCGCTGGATGCTGGACTTGAATCTCTCGAAGAATGGCATTGCCATCATTGGTCATCACAATGCCT
CCCATTGGGTCCAAAAGCATCTTCATCATGGACTTGGGTCCCAAACATGTTTCGGATGATATCTGCA
ATAGTCTTGGCAGCATTGATGTTTCCAGATTGAACTTTCTTCCGGATTCACGCTTTGTGTTCTGGC
TGAGCACGANCACTGGACGATGGCCCATCATGGCGAACGCGATGCANAACCCGGGTACCTCTGGC
CGNGACCACCGCTAAGGGGC

SEQ ID NO: 1906 ACCCGGGAGAGGCATCCCGGGTATCGGTGCGCGACCACTCCCTGCACCTAAG
CAAAGCGAAGATTTCCAAGCCAGCGCCCTACTGGGAAGGAACAGCTGTGATCGATGGAGAATTTA
AGGAGCTGAAGTTAACTGATTATCGTGGGAAATACTTGGTTTCTTCTTCTACCCACTTGATTTAC
ATTTGTGTGTCCAAGTAAATTATCGCTTTTGGCGACAGACTTGAAGAATTCAGATCTATAAATAC
TGAAGTGGTAGCATGCTCTGTTGATTACAGTTTACCCATTTGGCCTGGATTAATACCCCTCGAAG
ACAAGGAGGACTTGGGCCAATAAGGATTCCACTTCTTTCAGATTTGACCCATCAGATCTCAAAGG
ACTATGGTGTATACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTCTTCATTATTGATGACAAAG
GAATCCTAAGACAAATTACTCTGAATGATCTTCCCTGTGGGTAGATCAGTGGATGAGACACTACGT
TTTGGTTCAAGCTTTCCAGTACC

SEQ ID NO: 1907 ACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCTCATTACG
TTTTCTGGACAGCCGCACACGGATTCCGGTATGGCACATTCCTTATTCTTTGGCCCAGACAGCTTTG
TTGAGCCTGGTGTCAATGCGCACATCTGGAGTTCCCATCTCCTTCATGGCAAATTTCCGAATCTCTT
TGAGTGGCCGAGGTGCACGCTTCTTGAAGCCCACTCCATGGATGCGCTTGTGAATGTTGATGGTGT
ATTCTCGGGTTACCACTTCGTTGATGGCAGAACGGCCCTTTTCTTCTCGCCACCCTTCTTTGCGGG
AGCCATTCTGCAGCGTCCAAGTTGGAAAGGAAAGCCCCGCGTACCTCGGCCNCGGACCAC

SEQ ID NO: 1908 ACAAGGTGTTTTCCAGCGTGCCTCAGCAAAATGGAAAGACGATGTTCAACTT
TGGCTCTCCTATGTGGCTTTTTGTAAAGAAGTGGGCTACTAAAACTCGACTTAGCAAGGTATTCTCT
GCCATGTTGGCGATTCAATTCCAACAAACCAGCTTTGTGGATTATGGCAGCCAAATGGGAAATGGA
AGATCGATTGTCTTCAGAAAGCGCAAGGCAACTATTTCTTCGCGCACTGCGCTTTCATCCAGAGTG
CCCAAACTTTATAAAGAATACTTTAGGATGGAGCTGATGCATGCTGAAAACTGAGGAAGGAGA
AGGAAGAATTTGAAAAAGCCAGTNTGGATGTGGAGAATCCTGATTATTCTGAAGAAATCCTTAAG
GGCGAGTTGGCATGGATCATCTACAAAAATTCTGTAAGCATAATTAAAGGTGCAGAAATTCACGT
GTCATGCTTTTCGATTGCACAGCTATTGACTTTGCCAAAGATCTACAAAAAGAGATTTATGATGA
CCTTCAGGCTCTACACACAGATGATCCTCTCACTTGGGGATTATGTGGCAAGGGCAGGAATTANA
AGATTNAGTCANAGACCGGAAAGAACANCTACAACCGAAACAAGCCCAAACCATTTGGANGGT
CGGCCCGGAAAGGAGGAAAGGTGCTTGTGCTTGTGTATTAAANAAGCAANTGAAAACTCTTCC
CACCAGAAAG

SEQ ID NO: 1909 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATCNCATTTAACTTTTTTAATGGGT
CTCAAATTTCTGNGACAAATTTTGGTCAAGTTGTTTCCATTAAAAAGTNCACCTATAACATCTGA

GGTGT CANACACCATGGNGTGCCAGTCTTCCTCAACTGTAGGTCANTCATTNAGTGAACAACACAT
 TANCCAACCTTCAAAAAAGCATTTCNGGCANAGATTCCCTGTGAAGATGAACAAGACCAAGAACNTA
 NCGGACCACTGGCAACAAAGGAAAAANCCACGGCTGGAAATTTCTTGTTAATCCCCTTGAGCCAA
 AAAATGCANAAAAGCTCAAGGTGAANATTGCTGACCTTGGAATGCTTGTTGGNGCACAACAT
 TTCCTTGAAAATNTTCAAACAANGCAATATNGGTTCTTGNAAGTTCTAATCGGATCTTGGCTT
 TAATCCCCTGCTGACATTTGGAGCACGGCNTTGCATGANCAAAAATTNTGGGAATTTTCGGGAANT
 GCCNGAAANAGATGGATCATCCCTGCATCCCATGGAATTAATTGTGGGAAAAANATTANGACCCCT
 TTTTTTANAGGCTCTTTGAANCTGNCCANANGGTANNTTTTTGGTTTNAACCTTCAITTTCANGGGA
 AANAAANACNTTNGGNCNCGGACCCACCCTTAAGGGNNGAATTTCCA

SEQ ID NO: 1910 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNAGGCCAAAGTCTTGCTCTGTCCCC
 CAGGCTGGAGTGCAGCGGCCCNATCTTGCTGGCTGCATGCTCCACCTCCCAGGTTTCATGCCATTT
 TCCTGCTTCAGCCTNACAANTAGCTGGGACNACACACGCCCCGCCACCACACCCAGNTAATTTTTTG
 CATTTTTAGTAAAAAATGGTCTGNGTTANCCAGGATGGTCTCGATCTCCTGACCTTGATCCGCC
 TGCTTGGCCTCCCAAAGNGCTGGGATTACAGGCGTGAGCCACCGCACCTGGCCTATTCAGGGAA
 GGTTTCAAGCANAAANATGAACTGAGTTGGCTTTGGANANATTACAGGACTCCCACAGGCAGAG
 TGAAATAAGGGCNTTGTANATGGACAAAGGCACATATNACCACCAATGGGGACAGTNTGACTGG
 GGGACNCTNAGGGGCTGCTGTGGCTNGAAATGGGAGGGCTTGCCACCATTNATGGAANATGGCCA
 AATGAGGCAAAATAANGTTTGGTTTNNGGAGCANTTACCNTTNAAGGGGGNGCCANNTTTTTTTA
 AAAACCTTCTTTN

SEQ ID NO: 1911 ACAGTGAGCAGCCTTCTTCCTGGAAAGACATACAGCTTCAGACTACGTGCAG
 CTAACAAAATGGGGTTTGGACCATTTTCAGAAAAATGTGATATTACTACAGCCCCTGGGCCACCA
 GATCAGTGCAAGCCCCCTCAAGTGACATGTAGATCTGCAACTTGTGCACAAGTGAATTGGGAGGT
 TCCTTTGAGTAATGGAACAGATGTCACTGAATATCGACTGGAGTGGGGAGGAGTTGAAGGAAGTA
 TGCAGATATGTTACTGTGGGCCTGGTCTCAGTTAGGAAATAAAAAGGACTTTTACCAGCAACTACCT
 ATTATTGTAGGGTCCAGGCTCTGAGTGTGTGGGTGCAGGCCCTTTCAGTGAAGTAGTAGCCTGTG
 TGACTCCACCATCAGTTCCCTGGCATTGTGACCTGTCTTCAAGAAATAAGCGATGATGAGATAGAAA
 ATCCCCATTATTACCTTCTACATGCCTTGCAATAAAGCTGGGAAAAGCCTTTGTGATCATGGTTC
 GGAAATCCTTGCTACAGCATAAACTTTGGAGATAAACAATCCCTACAGTGGGAAAGGTTACAA
 GCTATATTATTCAACAATTTGCAACCCGATTCCACATTTCCAGAAATTTCCNAATTTCAAGCCCTT
 GAATANCCNTTGGAGCTTGGTCCCTTTNAAGCCATTTGATTAAATTAATAAACTTAAAGNCCTNT
 TNCC

SEQ ID NO: 1912 ACGCGGGGACTTCTCGCGGTGCACAGGCTGTGGTCTGTCTATCTCCCTGTGT
 TCTTCCCATCGGCGAAGATGGCCCTGGAGACGGTGCCGAAGGACCTGCGGCATCTGCGGGCCTGT
 TTGCTGTGTTTCGCTGGTCAAGACTATAGACCAGTTTGAATATGATGGTTGTGACAATTGTGATGCA
 TATCTACAAATGAAGGGTAACCGAGAGATGGTATATGACTGCAGTCTTCTCTTTGATGGAATC
 ATTGCGATGATGATCCAGAGGACAGCTGGGTCTCCAAGTGGCAGCGAGTCAGTAACTTTAAGCC
 AGGTGTATATGCGGTGTCACTGCTGCGCTGCCCAAGGAATCGTGCCGGGACCTGAAAAGT
 CTAGGAGTGGCCTACAAATCCAGAGACACAGCTATAAAGACCTATCAAGATGCAAGGCTTGCAGC
 ATCTTTGCTTCTCCACCTCCTGCCTCTGCTTATTTCTTGTCTGGAATAAATGAACAGAACTTCA
 AAATACTTTCTTACCCTCCCAATTCAANACTCAANCTTGACTGGTTGAAAAGAGCANCCACANTCA
 TTTTAAATCATTTTTAACNTTTCTTTGGGACTACCAAGGTNGNGTGGGGGAGGGGATTTTGGGGT
 TGGNTTNGATTT

SEQ ID NO: 1913 ACTAGTGTCATGGCTTGAGTGAGTTGCACAGCTTTTCGCAGGATGACAACCTT
 TCTCAATCAGATCCTGAAGTGACAAAGGGTGGCTTCCATCTTGAGCTTTAGTCCAACATGCAACTA
 ATTTCTCTACATTCCTGCACAAATATAGCAGAGACATGCTTGAGTCTGCAGGAGGCTATCTCCTT
 CATTTTCAAGCCTGGTTCCCAAAGATCACAAGGGCTGAAAATTCATCCGGCTTTGCATAAGTCA
 ATACTGCAGCTAAAGCCTCTCTCCAATTTTTAAGATCACAAGACTCAACAATCTCTTTCCAGTTCTT
 CATCACCACTGCAGTGATGAGCCTGGTAATTTTGCTTTGGGATTTTGCGAAGTATTTTTCTGGGTT
 CGAGCCAAGAGTTCTTGTCCACCTGCTATGGCCAATATAATGGGCATCGGCCATCGCGNTATCATG
 TAAACAANGGGCAACAGCCTCTCAAAATGGCGTNANCAAAAGCCTGAGTAATTAAACCATTTAA
 TGGTCCCCCNCTGACAGAAAATATTAAANGTTCCCTNCNANANTGAGGGGTTGGAAAATTTCCGAT
 TCTTNTTTTTTNGCTCTTTAAAGGNGCCTTCNTTTGCNTANANCCTCCTTTTTCTNGNATACCTAA
 AAAATTTCAAGGGTCGTTTTCCCNCCNAANATTNATCCCTCAANATTTTACCTTTCAANA

SEQ ID NO: 1914 ACTCCAACCTCAAGTTTACAAGTTACACCTTTGCCACAGCCTTGGCTAAATCTT
 GAACTAGTGCAGAATTACAGCTGTGGTAGAGTGCTGATCTTAGCATGCTTCGATGTGGCATACTTGT
 TCTTGACAGTCATGTGCTTTGTAAGTCCTTGATTTACCATGACTACATTCTTAGCCAGGTGCTGCAT
 AACTGGAAGAAGAGATTCTTCAGTATATGACAGGTAATGTTGTAGAGTTGGTGTCCATTACACATT

ATCCAGAATTTTCAGTGCTAAGCAAAAAGCTCCTGCTGCAATTTGAGAAGGAGGAAAAGTGCACCA
 TGT CATAGTCCAACATAGTTAGTTCCATCAGGTATTTGGCCAAAGTATTGTTGCTCGACATCAACC
 TCTCCAATCTTAGATGCTCTCCGAAGGAAAGTGCAAAGGTAGAGGCCGACCCNACCAAAAGTTAA
 AGCTCTTANAATCTTTTCATTTCCCCCGCGTACCTGCCCGGGCNGNCGCTNCNAAAGGGCGGAANT
 TCANCACACTGGCNGCCCGGTTCTANNGGGATTCCGNAGCTCGGGACCAAANCTTNGGCGTAAAT
 CNA

SEQ ID NO: 1915 CNGTGAGACACAAGATCTCTCTTTTACCAAAGTTGAGAACAGAGCTGGTGGAA
 TTAATTAATAGTCTTCGATATCTGGCCATGGGTAACTTCATTGTAACATATCATCAGAATGGGCAGA
 GATGATCTTGAAGTGTACATACACTAAAGTCCAAACACTATGTCAGATGGGGGTAAAAATCCATT
 AAAGAACAGGAAAAAATAATTATAAGATGATAAGCAAATGTTTCAGCCCAATGTCAACCCAGTTA
 AAAAAAATTAATGCTGTGTAAAATGGTTGAATTAGTTTGCAAACATATATAAAGACATATGCAGT
 AAAAAGTCTGTTAATGCACATCCTGTGGGAATGGAGTGTTCTAACCAATTGCCTTTTCTGTATCT
 GAGCTCTCCTATATTATCATACTCAGATAACCAAAATTAAAAGAATTAGAATATGATTTTAAATACA
 CTTAACATTAAACTCTTCTAACTTTCTTCTTCTGTGATAATTCAAAAGATAGTTATGGATCTTCAA
 TGCCTCTGAGTCATTGTTATAAAAAATCAGNTATCACTATACCATGCTNTAGGAGACTGGGCAAAA
 CCTTNGT

SEQ ID NO: 1916 ACCTTCTTTCTGTAAATCTGAAGAACCTGATTCTATTACCAAATCCATTAGTT
 CACCATCTGTTTCTCTGAAACTATGGACAAACCTGTAGATTTGTCAACTAGAAAGGAAATTGATA
 CAGATTCTACAAGCCAAGGGGAAAGCAAGATAGTTTCATTTGGATTTGGAAGTAGCACAGGGCTC
 TCATTTGCAGACTTGGCTTCCAGTAATTCTGGAGATTTTGCTTTTGGTTCTAAAGATAAAAAATTTCC
 AATGGGCAAAATACTGGAGCAGCTGTGTTTGAACACAGTCAGTCGGAACCCAGTCAGCCGGTAAA
 GTTGGTGAAGATGAAGATGGTAGTGATGAAGAAGTAGTTCATAATGAAGATATCCATTTTGAACC
 AATAGTGTCACTACCAGAGGTAGAAGTAAAATCTGGAGAAGAAGATGAAGAAATTTTGTTTAAAG
 AGAGAGCCAAACTTTATAGATGGGATCGGGATGTCAGTCANTGGAAGGAGCGCCGGTGTGGAGA
 TATAAAGATTCTTTGGCATACAATGAAGAATTATTTCGGATCCTAATGAGAAGAAGACCCAGGTT
 TTTTAAAGNNNGTGCAAACCCCGTTTTTACTAAAAACAATGGGAATTAAGGCCCTTAAAAATGTTT
 CNAATAATGCTTTATTTTGGGCTNCCCCAAATTTTCTGATGGGAGAAANCAAAAAGNTTGAACCA
 CCTT

SEQ ID NO: 1917 GGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTAATTCTGCTTTTGTAAAA
 GCAGTATTTTGAGATGGACATTGCCTCTTCATTGTATTTCTCATCAATTCATTATTTTGNNGTTAT
 AGCTTGACAAGCAATTAACTTTAAAATGGTAGATTCGGTAACCTTAAATTGGTAGCTTTCATTTGC
 TTAATAATTTTTTGGCATATGCANATAATGTTCTCATCAGTAGTAANAATCTCAGGGTTATGCTTAT
 TCCCCAATGGAGGTATGGCATATAATCTTTCTGCCTTTACTTATCAATTCACCAAGGAGCTGTTTT
 CTCTGCATCTAGGCCATCATACTGCCAGGCTGGTTATGACTCAAAANATGTTATCTGAAAAAAGCTC
 TATANAAAAAAAAGTTTCCCTCCCTNATCAACAAAAAGCCACCCCTCTAAGAGACATTCAAGT
 GAACTATCACAATTCCTAATCAGTTACAATTTACAAACAGATAAGTTTAAAAATAACAATTTACAA
 AATTTTTGAAGCATACCTTAACATCTTGGTTTTGCNGTTAAACAATGGGAAAAGNNTTTTNTCCTA
 CCCTAAAAAAAACCTTGNTTTACNCCCAACTTGGAATAATCCCCCGCGT

SEQ ID NO: 1918 CCTGCTGGCATAGTTCTTTGACCCGTTTCATTTTGGGCAAGTGATTGACTGT
 TGGATATTCTTGCTGGATTCTTCCTTCTTACGTAGAAATTTGCCTCTTTCCACTAGGAATGTATCAC
 GCCAAATTTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGTTTGAG
 GACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCAGCAATATCCAGGATCGTGGGGGCCA
 AGTCAATGTTGAGAACGATCTGTGGGACTATTGATCCTGGTTCTACACTTGAGACCACGAATAAAAA
 AAGGCACACGAATATCAAAGTCATATGGCATGGATTTCCCTTGACCAGTCCAAACTGCCCAATAT
 GGTAACCATGGTCGGCGGTGTAAATGATGTAAGTATTCTCCAGCTCCCCCGTCTCCACGAGCATGT
 TATACAGCCTCICACAGAATCATCCACTGACATCAAAGTCTGGAGCCTTTTGCCTGTANAATGT
 TTGTAATTTCCATGTGGATGGGCAGCATTGGGTCTGTGTACCTCGGCCGCGATCACGC

SEQ ID NO: 1919 ACGCGGGGAGCTGGCACCTTGGCGCTGTTGGTGGCGGCGGAGACAGCTGTGA
 AGTGTGAGGTTCTTTGTCTGCTGGCAGCTAGGGGCGACGAGGCGGGACGTCATGGAAGTGAAGGA
 TGCCAATTCTGCGCTTCTCAGTAACTACGAGGTATTTTCAGTACTAACTGATCTGAAAGAGCAGCG
 TAAAGAAAGTGGAAGAATAAACACAGCTCTGGGCAACAGAACTTGAACACTATCACCTATGAA
 ACGTTAAAATACATATCAAAAAACACCATGCAGGCACCAGAGTCCTGAAATTGTGAGAGAATTTCT
 CACAGCATTGAAAAGCCACAAGTTGACCAAAGCTGAGAAGCTCCAGCTGCTGAACCACCGGCCTG
 TGACTGCTGTGGAGATCCAGCTGATGGTGGAAAGAGAGTGAATAGCGGCTCACGGAGGAGCAGATT
 GAAGCTCTTCTCCACACCGTCAACAGCATTCTGCCTGCAGAGCCAGAGGCTGAGCAGAAGAAGAA
 TACAAACAGCAATGTGGCAATGGACGAAAGAGGACCCANCATANAAAGANCCAGCTGGCCCCG
 CGGTTTCATGAAATCAAGAAAGGCTGGCAGCCCATTTTCTTGGAAATTTGAAAAGGATTGTTTA

TTTTGANTTTTATCCTCATCCCAACAAGGCCCTGGCTTTTGTGGNTTAGTTGGGGTACCTGCCCCGG
GGCGGGCC

SEQ ID NO: 1920 ACAAGAACAAAGGCAGCTACGTCACCTATGAACCTACAGAAGGTGAGCCCA
GTGCCATCGTCCAGATGGAGAGTGAAGTGGCCAAAGGCAGCGAGAAAGAGGAATATTTTCATCTAA
TGACTCCCAGGCCCAAGGAGCTTATTCCTGGCTCCATCGCTAACACGTTGACTGCTTATTATGGG
AAAGTTTTCTCTGAAGCCAGGGAGAAGCATTGATTGATGTGGGCAAATCCAAGCTCCAGCCAGGT
CGCAGTCCCAAATGCCGACATCACTGACTCCAGGGACCAGGGACATGGAGAAAGCTGTTTATGAT
ATCTTTAACCAGGCCCTCTTACTAGAGCTGGTGTGTTGTGACTGGCCAAACAAGATGTGGCTATGCCA
GGGGACATCTGAGTATGTGCCCAGTCATCTTTTTTTCACAGGTTGAAGGGAGAGAAAAGATTTTGA
GTAAAGGTCATTGGCTGCTCTACTCTGTCCCCTACCTGGTCACCTAGTGATAGCCCCAGTGGAAAT
ACTGNCCATACAAAGGTCTTCCCCAGAGGGCTGGATACCCACAGTAAAAAGGCCNNGGCCANGGA
AGGGGGTANGGAGACTNTTGAAGAATCTTACCCTCCNTGAATAAATNNGGCCTCACCCCCCTAAT
TTTGAGNCCCTTTCCCTTTCCGGGGTTCCCCAAACNAACNTTAATGGCTTACGGNGATTTTTTTTT
TCAAATA

SEQ ID NO: 1921 ACACCAAGCACCTATTTTTATAACTTAGCTTCCCATGGAGAGATAATGGCTTG
CGTGCATTTTATGTATCCATAACATACATAAAGGCTCGGTCTTTTCAATGGGATAACAGTTCACA
ACTCTTCGATTGAATTGTAATGAATCTGGTGACAAGGATTTTTCTCTAATGGATTCCAAAGTTAG
CCAGAACTTTAATGTCAAGATGAAAAAGGGTGTAAGGTGTTATATTTTCTTCAATTCCTTTACCA
CAGGAGGCTAACTCCACAATTTCCCTCATGTTTCTCATTGAGAAAAAATATTAATTTGTGTT
CAGAATTATTTGATGATTGCTTCTTTGTGCTGATGTTTCAGTTCCTGAAGTCAACTTGGCTCTCACA
ATTTTCTAAGGTCAGGTTATTGACTTAGGGTTGTATAAACATTTTTTCTGGTTTTTGGATTTTCACT
GAGAACGACCTTCCCTTAATCGTCTTCTAGATCCCTTGAACCTTTTTTGTGGCTTGCAACTTCCCTCAC
GGGTGTGCTTTTCTGTAAACAATTTCTTCAANAGTTTCTTCTGGTTTCTCCCCTCCAGTANAAAAATC
CTAGTGTATTTTATTTTCANGACCTGTAATGATTGCTNCCTTCCCTCGNGGCTTTTTTCAANTATTTCC
NCAGGCACTCCATCAATGAATTTTGGGGGATTTTTTAATAAATTGGGCTTATTANANAG

SEQ ID NO: 1922 ACTAAATATTGCTGAGAGCATCCACCCCAGGAAGGACTTTACCTTCCAGGAG
CTCCAAACTGGCACCACCCCCAGTGCTCATATGGCTGACTTTATCCTCCGTGTTCCATTGTCACA
GCAAGTGGCAGTGTCTCCACCACCTATGATGGTGATGCAGCCCCCTANAAGTGGCTTTCACCACCTC
ATCCATGAGAGCTTTGGTTCCCCGGGCAAAAGCTTCCCATCAAATACCCCCACAGGACCATTTCCA
CACAATCTGCTTAGCCCGAGTGACAGCCTCAGCATACTTCTTGCTGCTTTTCAGGACCACAGTCCAA
GCCCATCCAGCCAGCAGGTATGCCANAAGCCACAGTGGCTTGGCCAGTCTTGGCATTCTCATCAA
ACTTGTGAGCAGTGACAAAGTCAACAGGCAAGGNAATCTTAACACCATTCTTNTNACNTTTGGAC
ATTAGGTCTTTGANAATCTTGGGNTCCCTNTTTATCAAACAAGAGAAAGGTGNCANTNTCCATGNT
GTTGAAGCNCCTTTAAGGAA

SEQ ID NO: 1923 ACGCGGGGGGCACCTGTGGCCACACACGGGCCAGCTTCTCCAGGGCCTGGG
TTTCAACCTCACTGAGAGGTCTGAGACTGAGATCCACCAGGGTTTCCAGCACCTGCACCAACTCTT
TGCAAAGTCAGACACCAGCTTAGAAATGACCATGGGCAATGCCTTGTTTCTTGATGGCAGCCTGG
AGTTGCTGGAGTCATTCTCAGCAGACATCAAGCACTACTATGAGTCAGAGGTCTTGGCTATGAATT
TCCAGGACTGGGCAACAGCCAGCAGACAGATCAACAGCTATGTCAAGAATAAGACACAGGGGAA
AATTGTGCACTTGTTTTAGGGCTGGATAGCCCAGCCATCCTCGTCCTGGTCAACTATATCTTCTTC
AAAGGCACATGGACACAGCCCTTTGACCTGGCAAGCACCAGGGAGGAGAACTTCTATGTGGACGA
AACAACTGTGGTGAAGGTGCCCATGATGTTTNCAGTCGAACACCATTAAAGTTCCTTNATGACGCGG
AACCTNCCCTGCCAGCTGGGTGCAGATAACTACGTGGGCAATGGGACTGGTTTCTTTNATCCTTC
CGGA

SEQ ID NO: 1924 ACACAGTATTTTTTATATCTATGTTTTCTGTTCTCTGGCGCAAGATATTCTGC
ACCTGGGTGCTTTCAGGCCTTGACCAAATAGCATGAATAGTAGGAAATGAGAACTTCCCTCTGTC
AGATCTTCAAAAACTTTTGTCTTCACTATATTCTTTGGAGTGATAGTATAGCATAATCATCCCTAA
TTTGAAAAAGAGCCCAAGTGTATTAAGTAGCGGTTTTAAATCTTCTTTGTAATCAGAGAACTTCT
GCATGAGACCTACTGCTAATCCAAACAGTCCACCTGTTTTCTGCAGCACCATAGCTTTATATTCTTC
TTCAGTGGGACAAAGTGAATTATCCCTCCAGTAAATATCTAGGCCTTGTCCTGATGGAGTTCCAA
AAGCTGGCGGGTAAAAAGCTTCACTGCATCTGGGTGATCAAGGGTTAAGACTTCTCCAAGCCAA
GGAAATACACGTAATTGGCAGAATTGATGACAGATGGGATTCCATAGATGCTGTGGGCCACTGGA
AANCACGCGGAGTTTTGAGTTGTCTTCAATATCATCGATGAGNAACTGGCATTTTGCACATTCTNT
GCNCTTCNAATAATAATNTNAGCTTGGCCCTTCTGGAACCTTCANCCCAATGATTAATGCCCCTG
CGAAAGTTTGGTTTTTACTTNTTNACCCTNGGTAAACTGAAAGAAGGTATTTNTTAGGGGGTCTA
AA

SEQ ID NO: 1925 ACGCGGGGTTCCCCAGACCTGCTCGCAGCACCTGCTGTCTTCCCGGTCCGGC
CCGCTGCCCCGCGGCCAGCACCATGCTCTTCTATTCTTTTTCAAGTCCCTTGTGGGCAAGGATGT
GGTCGTGGAACATAAAGAATGACCTGAGCATCTGTGGAACCCTCCATTCTGTGGATCAGTATCTCAA
CATCAAACCTAACTGACATCAGTGTACAGACCCTGAGAAATACCCTCACATGTTATCAGTGAAGA
ACTGCTTCATTCCGGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTGACACACAG
TTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTGATGGCTCCTCCTCCTCTT
CCCCCTCCTCTTTTCATTGGTGACCCATAACCCCAAGTCCCAGCCCAGAACCCCTAACCCCAATAC
TTGAAGGGGTTTTGTTTTTTTACTAATGATGGTTTTTGTGGGTTTTTTTTTAAGGGATGAGTGGATGA
GAGGAGTNATAGGGAACAGCTATCCTCTTTTTGAGAAGGGGAGGATAAGTAGGCTGGGGAAACTT
CAAAGCCTTTCCAGTCCCCANACCTGCCTTTCTNACTTACTTCTCTGGANAATGGGAAGGAAAG
TTCTAGGTCNTTTTTCCAGGGGCANNAGGTGATTTTATTTTGGGGGATGGGAAAGGAATTC

SEQ ID NO: 1926 ACTTACCCTATCTTTTCTTTAATTAACATTTCGATTCCATGAGCTTCTTATGTGA
AAAAATAAGATTTTTCTTTAGAGAGCAGAAGCAGAAGAGTAAATTTATTGTATAGCTAGCAATA
TTTTTTTATGCCATCTGTCTCAAATCAAAGAGTCATCATAGTAGGAAATAACATGTTAGTTGTCATT
TGGCATGAGTGTGCATTCCAGTAATTCTTAATTGATATTTGATTAAATCCATACCTTTGATTAAAC
ATGCTAGTTCAAATAAGACTGCTCAGTTTCCAAGGGTTTTCAAGCCTACTTACCTTTATAAAGGT
TCTCTAGTCTCTGATTAGCCATGACTGTATTGGACTTTGAACATTTTCTGAACTAAAAACCTCTATT
CTAAACTAATCTCATTGGATGTGTAAGTCTTTTGTAAAGGCAAGAATAAATAATATCCAGGACAA
TTTATAGTTTTCTCAGTATTTCCCAAATATTAGAATATTTACTTCATTATTGGTTGGCTGCCAATG
ACCCCATATGTTCTGTGGAGAATAGTAGCTTTATCTTTGATATAATACATAGGTCTCCAAATAGGG
TAATACTTCGCCAATTGGATTAGATTTTCAAAGTAAATTTAANAGGTTATCTGGTTTTCTTGGGG
ANGGGTCAAATNTTTTTTGGTTAATTTAAAGCTCCCAAATTTTGATNAAATTNAANAA

SEQ ID NO: 1927 ACTACTTCAGGTAATCATTGTTTTACTTAAAGTTCAGATTCCAGCATATATTG
AGATGAATATTCCCTGGTTATACTTTGTCAATAGTTTTCTCATTGCTACAGTGTATTGGTTTAATTG
TCACAAGCTTAAATTTAAAGACATTGGATTACCTTTGGATCCATTGTCAACTGGAAGTGCTGCTT
CATTCCACTTACAATTCCTAATTTTTGAGCAAATTGAAAAGCCTATATCAATAATGATTGTTAATAT
TATTAATTTAAAGTTACAGCTGTCATAAGATCATAATTTTATGAACAGAAAGAACTCAGGACATAT
TAAAAAATAAACTGAACTAAAACAACCTTTTGGCCCCCTGACTGATAGCATTTTCAAGATGTGTCTTTT
GAAGGGCTATGATACCAGTTATTAAATAGTGTTTTTATTTTAAAAACAAAATAATTTCAAGAAGTTT
TTATAGTTATTTCAGGGACACTATATACAAATATTACTTTGTTATTAAACACAAAAAAGTGATAAGA
GTTAACATTTGGCTATCTGATGTTTGNGTACCTCAAAAAAAACTACCTGGATGCAAACTGGTAT
GTAAATCTGANATTTACCTGACACTTTTAAAGAAATCAACCCAAACATTTTTTTATTAAATGGTTC
AAATTGGAANCCC

SEQ ID NO: 1928 ACCTCTACTAACCATAATTGCATCACTAAGCCTGTTAGTTTGAGAGGGTCTTA
AATTTGTTAAACTGGAAAATCTTTGTATAGGGACTCCATTTCATTGACTCAAGGTTATAGACTTC
CACCGTATTGAGAAATTCATTGCCATCGAATCCTCCCCTGCATAAATGGTGTTCCTACAGTTGC
AATCCCAGCATGTCTCCTTGGTGAAGTCATATTTCCCATCATCTTCCATTTCATTGTTGGATCA
TACATTTCCACACAACCTGATGGCATGAGAACCATCAAAGCCACCACATACAAACAGTTTTCCATTA
AGAACAGCCACTCCAGCTCCTCGCCTAGCCACATTCATGGGTGCAATTAAGTCCAGGTATTATTT
TCAGGATTGTATCGTTCTACTGTGTTCAGACAATTCCAAGATTCTGCACCTCCGATTATGTACGCG
GGGCCTTTTTTCTTTTTTCCGGCGTTCAAGATGTGCAAGCGAGGACGTGGTGGGTCTCTGGTGCG
AAATTCCGGATTTCCTTGGGGTCTTCCGGGTAGGAGCTGTAATCAATTGTGCTGACCACACANGGA
GCCAAAAACCTGGTTATCATCTTCCCGTGAAANGGGGATCAAAGGGGACNGGNTGAACCAAACCT
TCCCGCTTGCTTGGTGGNGGGTGACATTGGTGATGGCCNCAAGNCAANAAAANGGCNAAACC

SEQ ID NO: 1929 ACGCGGGGACCTCCGGCCTAGCCATGTGATTTCACTTCCACTCCATAACGCTC
CTCATACTAGGCCTACTAACCACACACTAACCATATACCAATGATGGCGCGATGTAACACGAGA
AAGCACATACCAAGGCCACCACACACCACCTGTCCAAAAAGGCCTTCGATACGGGATAATCCTAT
TTATTACCTCAGAAAGTTTTTCTTCGCAGGATTTTCTGAGCCTTTTACCCTCCAGCCTAGCCCCCT
ACCCCCCAATTAGGAGGGCACTGGCCCCCAACAGGCATCACCCCGCTAAATCCCCTAGAAGTCCC
ACTCTAAACACATCCGTATTACTCGCATCAGGAGTATCAATCACCTGAGCTCACCATAGTCTAAT
AGAAAACAACCGAAACCAATAATCAAGCACTGCTTATTACAATTTTACTGGGTCTCTATTTTAC
CCTCTACAAGCCTCAGAGTACC

SEQ ID NO: 1930 ACAAAGGTGAGGAGTGAGGAGATAGGGTAGTTCTTCTTGGCTGGCTGGCT
TCATAATCCCTGGGCCCCGAGATAATTAATCGACTTTTTCTGTCTCAGGCATTTGTATGACCTCT
TTGGAGGTTCCCTGCTGGGTAGTTATCTTTGTATCTGATGGACCATCTCAATTTAAATACTCTGC
CAGGTTCCGAGGTTTCATGCTTGTCTATCCAGCACTTTGGGAGGCTCAGAGGTGCCATTGGCTTGAG
CCCAAGAGTTTGAGACCAGCCTGGGCAACCTGGTGAAACCTCTTCTCCATTAAAAATACAAAAA

TTAGCCAGGCATGGTGGTATGTGCCTGTAGTCCCAGCTACTCAGGGAGCTGAGGTGGAAGGATTG
 CTTGAGCCTGGGAGGTCAAGGCTGCAGTGAACCTTGATTGTGCCACTGCACTCCAGCCTGGATGAC
 AAAGACCCTGTCTCAAGAAAAGTCTGTAATTTCTTCTTAACCCTTAATATCCAGCCTCANTCCTGA
 GGTTCCTTTACCTCTGGGGGCTATTTTATGCCGGCTCTCTCCTGAATGTCACACATCTGGTCCTTC
 AAGAAAACATTCTTCACATCCCTGGCCTGAAAAAACAATTTTCAAGGGAGAATCGCATGGNAAC
 CAGCCCCTTTNTGGGGCTTCCCAACTTAAATGGGTTGTACCNCGGG

SEQ ID NO: 1931 ACCCATAAAAATCCTTATCACTGGGGCCGGGCGCAGTGGCTCTTAACATAAA
 CACTTTAATGTCAATTAAGGCTTCAACTCAATGTTAAGTCAAACCTCAAGTCAATGCTGAACTGACT
 CTAGTGTCAATTAATGCTTGATGGTTTGCTATACACATTGTATTGGAACAACTATCTCCAAAATG
 AATTTTCTGATATCCTGCAAGGAGTGAGCTCAGACTGAAGACTTTGGCACACTGATGACATTTATA
 AGATTTCTGTCCAGTATGCATTCTCTGATGTCTAGTGAGGTGTGAATGTGAATTAAGGCTTTGCC
 ACAATCATCACACTTGTGAGGTTTCTCTCCTGTATGAATTCTCCTATGTTTTGCATAGAATGAAGCT
 TGACTGAGACCTTGTCAATCATGACATTTGTAAGGTTTCTCTCCAGCGTTGAGTTCACCGATGA
 ACTGCAAGGTATGAACAATGTCTGAAAAATCTGCCACATTTATTACCCTAGTATGATCTCTCTTCC
 TTATGGATTCTCCAGTGATTCCAATGGTTGTAGCATTACTGAAGACTTTGTGACAATCATTACCTTA
 GTAAAGTTTNCCTACCCATGGATTGCCNTGACGGTNAACAAAGTGTGACTTGCCTACTAAAAGGC
 TTTGCCNCACCCCTTANCTTGGGAAAGGTTTCTCTTCCAAGTGGGGAATTCTTACCTT

SEQ ID NO: 1932 ACGCGGGGAAGAAAAAGAAGAGACATATGATGATATTGATGGTTTTGACTCC
 CCAAGTTGTGGTTCCAGTGCAGACCCACTATCTTGCTGGGAGTGTGGGGATAAAAGAGCCTAC
 AGGAGAAAGAAGAAGAAGATATTTATGAAGTCTTGCCAGATGAAGAGCATGATCTAGAAGAGGA
 TGAGAGTGGCACTCGACGAAAAGGAGTAGACTATGCCAGTTACTACCAGGGCCTATGGGATTGCC
 ATGGTGACCAGCCAGATGAACGTCTCTTCCAACGGGGTGACCTCATCCGTATTCTGAGCAAGGAG
 TATAACATGTATGGCTGGTGGTGGGAGAACTGAACAGCCTCGTTGGGATTGTTCCAAAGGAGTA
 TCTCAACCACTGCCTTTGAAGTGGAAAGAAGATGAAACCCANGAAATATATTTTTTCCCTCTCTCCT
 GCCTTTATGAGGAACTGATCATCAAAAGTTCCCACTCCCTACTTCTGCCACCCACCAACNGCCT
 TGGACTTCCTCTCTTTTGCNTGAAAGAAGACCCAAGTCTNNTTGACCCCTTCAGAAGAGACTGTT
 AAGCTACCAAGTAATACAAAGTGGGGAAGAAGGCACGTTTNTTNAACCCCTGTTTCTTAAACCNA
 GCCCTAANTCANTAGCTTCATCCCCATTNTTNAANTGNGNCCACNCAACCCCAATTTGNCCTT
 TTT

SEQ ID NO: 1933 ACCCCTTAACCCCTTCTCCTTACCCTTAGCAGCAAGTCCCCTTTTCTAGGG
 GGCAAGAAACCCCAAACCCCTTCCCTCCGTGTCTTTACGCTCTCTTTTCTCTGGGTTTACTTCCTTC
 ACTATGGCAACCTTCCATCCTCCATTCTCCTTCTCCTTAGCCTGTGTGCTCAAGAACTTAAACCC
 TCTTCAACTCACACCTGACCTAAACCTAAATGCCTCATTTTCTTCTGCAACACCGCTTGGNCCCA
 ATACAACTTGACAATGGCTCTAAATGGCCAGAAAATGGNTACTTTTCGATTTTCTCATCCTACAAA
 AANNTAAANAAATTTTTNTNCAATAAAATGGGCAAATGGTCTNGAGGTGCCTNGNTNTNCANGCA
 TTTTTTTTACACATTTCGTCCCTTTNCTTNTNTNTGGTGCCCCAAAGNAAANTCGTCCCAAAATATT
 CCTTTTTTTTCCCTTCCNNGTACCCCTTATATCCCAAAN

SEQ ID NO: 1934 ACTAAAAGACCTAATGCATGGCCTCATCACCTTAATGCTGGATTCTCGGATTG
 AAGATCTTGAGGAAGGACAACAGGTCATCCGCTCTGTGAACCTCTTGGTGGTGAAGGTTCTGGAG
 AAGTCAACCANACCAACATCCTGAGTGCCCTACTTGTTTTGCTCCAANACAGCCTGCTAGCAACAG
 CCAGTTCTTCCAAATTTCTCGGAGCTTGTTATGGAGTGTCTCTGGAGAATGGTTCGACTGNTGCCTG
 ATACCATCAATAGCATTAACTAAACAGAATTTCTTGATATCCACATTTTCATGAAGGTCTTCC
 CCNAAGAGAAACTGGAGCAATGGCAAAAGGGGATTTTCCATAGGGANCCCTAAAGACCCCTGTCT
 ACACCTTTNTTGCAAATTA AAAANGGCCNAAGAATCCTTGACCCACCTAATCGATTNATCGNNAA
 CNA AAAACCANGNCTGANCTGGAANGCCCTTNT

SEQ ID NO: 1935 ACTTAACTGGATAAAGGACAAAGCCTNNGCCTGGCTGGATCACACCAGCACC
 AATATTGNCAATGGTGGTGACAGCAATTACAAAGCCATACTTCCCTGTGCAGGTCCCCTCCACCTC
 GTGAAAAGCTTCTGCTTCACCGNGTTGAGCAAGTTGGGGCCGAAGTANCGCGGGTGCAACANGAT
 TTCGTGCTCTAGGGAGATATGGTNGAACATCTTCCCANACCAGGTANGCAGGCNAAGTCCANACC
 TCCNACCCNNGCTACCTNNGGNCGNNAACCCAGCTAAGGGCGAATTCCANCCACTGTCNNNGCG
 TTA CTATAGGATCCTANCTCGGNACCAAGCTTTGGCCGTAAANANTGGANATANCTTGATTNCTGN
 NGGAAANANTGNTATCCAGTCACAATTTNCCCNNAACATAACCGAGCCGGNTAGCNTATNAGTGG
 TAANNCTTGGGGTGCTANTGA

SEQ ID NO: 1936 ACGCGGGGGGGGCCACTTAACCATCCGCCTTGCCCTGGGTGGCTGCACCAAT
 CGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCAGGGATGGCCGTTTCGTATAGCAG
 CTGGGCTCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAACCTANACAGG

ATCCGTCATTGGATTGGCTGCGGGGCCCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGCT
GGCTTTCTCCCTCTGCATCCTATGATGATCACAAATGCTGAGAGACTGCGAAGGAAAACGGGCACG
TGAAGTCCTTGTTACTTTTGNAGAAAACANGATACAGANGCTTCAGATACTGAGCTNCACGAAAAC
ATAANTGAGCTGACTTTAGTGANGCATTAGCAAGTGGGAACCANGGTCAAGGNCCTTTTGNAAC
ACTTGAANCGATCTTAATTTTGGTAGAATTNGGAGTTCA

SEQ ID NO: 1937 ACGCGGGAGAATATCCCTTCTGCTCTGGTAGAGGAAAGCTGAGTGTAGGGCT
GATGTTACGGAGGATGTAGTCCTCCTATGTCTTCTGCTGATTTTTCTCCCTGGATCCCAGANAAATA
GCATTCAACCCAGCTTGCTCACTCCCATTGTCATNTGGATCCCAGAGAAGTAGCATTCAAACCCAG
CTTGTTCACTCCCATTGCAACTNTTCTTTGCTGTCANGCAGTTAGGCTGGGATAACATAGGCAATT
CATNTTCTCAATCNCCTTTTGGACCTGACCGATGAGGCTGAAGAAANANNAGGTTTCGAGACTNG
GTGCTTACANATCTCCATGGACCAACNGGCTGGNATCAGGTCTNCCTCNGGGATTNAAACGAGG
GNGCCTACNAGGCCTTNCCTANATGGTAANCGAAGCCNCTTGGTGGTTCTAANCCCTGCCCTGCCT
TATTNCAAGNNAACCCCATTTCTTGAGGAACCA

SEQ ID NO: 1938 ACGANAACAGAACCAATCTAAAAATGGCTGATGTTACTTTANGAGCCTGAAA
AAAACAGGAGATCCTTGAAGACCCAGCCACCCCTTCTAGAATGGTCAATAATGGGCACCTTTCCA
AAGCTACTAAGAGGCACTTGGCATTNAGGAGTTTGNCTTATGGTTGCATAAAANNATCCCTTTCA
CCCANACCTGGCACCCCTTATGGTTCAAAGTTAAGAACGGGAAGAATGGGTGGCAAGGTGGCTCC
TGGAANAGCTCACCCAGCACAGCTGCCCTGAGCTCGGGGCCTTGGTTTCTGACCCTGGGGATATTT
ANATTTAATAAAATNTTATATTAATTTNCACAGAAGAAATAGATAATATAAAATCTGATGGGGNTN
GGGNAAGAAAANCGNTANTGGACTCATTGNGGAATCCCAAAGCTGGGAGAAGNTCCATTNANG
GCCCAACTTGACCTCCCTCTTTGANCCCATTTNG

SEQ ID NO: 1939 ACGCGGAAACGGACCACAGTTCTAGAGTCTGAGGGGACCCGAGAGTCGGCC
ATCAATGTGGCAGAAGGGAAGAAACAGGCCAGATCCTGGCCTCCGAAGCAGAAAAGGCTGAAC
AGAAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAAGCTGAAGCT
ATTCGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAAC
CCTGGCGATGTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCC
AGTGCCAGGGGACTCCAACNTTCTTCAGTGGGGAGCACATAAATGTCCATGGTCCTCGGCCCGC
ACCACGCTAANGGCG

SEQ ID NO: 1940 ACAGCTGTCTGCATTGAAAATTCATGCATGGAGAAAGGGAGTAAGCAAGGG
AGAAACGGTGCGATTACATATTTCCGCGAGATCATCAAGCCAGCAGAGAAATCCCTCCATGAAAA
GTTAAACAAGAAAGCCGCTTTAGCACCTTCCCTCAGCCTACTTGAAGCTGCAGACTTGAAAGAGC
TCCTGACACAACCTGGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGGAATGACTA
GGTGAAGAAAAAGAAATTTCTGTACGGGACAAAAATGCTCTTCAAAACATCATTCTTTATCACCTG
ACACCAGGATTTTTCATTGNAAAAGGATTTGAACCTGGGGTTCTAACATTTTAAAGACCACNCA
ANGGNAGCAAAATCTTTCTGGAANAANGTAANTGATACCCTTCNTGGGGGAANTGAATTGG

SEQ ID NO: 1941 ACATGAATTAGAAGCGTGCATCTAGGATTATGGCCAAACTGTTTTAAAAATG
CAGAAATGTAAAATTACATCTTGAAAATATGAAGAGATGGTCTACACACTTCAAAAATCAAATGT
TGCTATACCAGAGATGTATGACAATCACGGGATTCAAGTGACAAGCAGTAAGATCTCAAAAATTA
ATACTGGTCAAAGATAATGGGAATATTTTGCATTTCACTGAAAATACATTGACTACTAGAATACN
AAATCTAGCAGGAACTCANGGAAAAAAATTACAAAATCTATAGCCAATTACTTAATATTTCTTATT
ACCTAAACAACAGCATGACATTAAACNAGAAAACTGCACCTGCANTTTTATTGCCAATGCTCCACG
GNTAATTNAGTTCTNCNAAAANTGAANATGNAATCCAAAACCTGGGTTCTAANCTNCAAATGAAA

SEQ ID NO: 1942 ACGCGGGGCCCTACTGCCGATGCCAAATATTTGAGAGAAGGGAACCTTTTGCT
GAGGTTTTCTCTGAGGTTTTTTTGATGCTTTATAGGAAACTATTTTTTAAAAAAAGCCATTTCCCAC
CAAGGACACAGTGGATGTGTTTTCCCTGACTCCAGCAGGGCAAGGAATGTANCCGAGAGGTTGTG
TGGGCTGGGCTCTGGTGCCTCTTCCCTGGCCAGGACACCTCTCCTCCTGATTCCCTTGGCACCTTG
TCTTTCTGTCTGTTTACCTGTCTCCCTGCCTGCCCATCTGCATCTTTTGCAGCCCACTCTGACTTCCA
TCTGGGGGCTGAGACCACCTTGCTGCCCTTCTTCTGCTTAAGAATGTCTTTTAGCTGGGCATGG
TGGCTACCCCTGTNACCCACCNCCTTTNGGNGGGGGNGACGGCAGAAACCTGNGGCAGGATTC
TANAACNACCTGACCTACATGGANAACTCCNNCTCTGGTAAAAATACAAAATAACCGGGCATGG
NGGGCACGCCCTTAATCCG

SEQ ID NO: 1943 ACAAACCAAATGTTNGTTACTATAACTTCTGCATCACAATTAATAATCCAAA
CAGTTTTTTAAAAACAGTCAACTCAATCAAAACCCACTACTTCAGAATCAATAGCTTCTTTGAAGC
CACANTAACATTAAATATGGTTAAGACTCGGAATGCAGAAATTTGGTTGGNTGGAAGCTAATTA

AACTTCCAACCTTGNTCAAATAGAAATTACAAATNAGGCTNAATTGTGNGTTTTNACANAGGATAC
AGTCCNNTGNAATCACCAACACNTGGNCAGCTATGTGAGAATTAAGATCCTGAGAATANCAAGG
AANTTTNAGGNGTTCCTTNTATACAANANATATTGATGTNCTGTTCTTCCCAANNAGANANTTTAA
NNGCNTNTAGNGGAATNACACGCACAACCCCTTNCCTT

SEQ ID NO: 1944 ACTAAATGCACAATTTAAACATCAGTTATACACTGTCATTAGTTTTCTCTCTTA
AAAAAATCAGTTCTCTGGGCTTTTANATGTGTTTTCTTTTTTAAAAAAGCATCCTTCTCATGGTC
CACAATTGGTCCATACTGACACCATTGGTAACAATCCTATCAAAGATCCACATGTTCTTGCTCTCT
TTCAGGCCACTCCATGGCCAGCGGGAGTCTTGAGTCTCTCTGCGTGTGTGTGGCAGGAGGCCA
TGGTCCCGGGACTCTGCCTAGAGCANGACGGCCTGNGCTANCTNCTTGATGGTGGACGCAGCTNT
CTCCAGGNATTNCTCTGTTNGTNCCACCGNGACCACAACCCGANTGCTGGGNGGAGGGAGACACT
TNTTTTNTTTTCTGANTNGNCCCTGANGAAAGCNANACNTTTTNGNGATNNNTGGGCNTANAAT
TACCTGNACAATNNGGCNANTTGTNGCNANACNAATGGTCTNTTTCANTTTTATGGGGAAGGTTG
GNNAAGGACTCCCCACACTT

SEQ ID NO: 1945 ACTTGGCAGGGTCTTGCCACAGACACATTTGGCTCCAGGCTGCAGTTCACAG
AGTGGTTTTGAAGGGGATGCAAAGGCTTTTAGCTCCCATGGATGGAGCACCAGGTTCAAGATCTTG
ATCCCTGGAGTGGTCTTTTTGATCCAGTCCACAGTCAATTTCCCCACAGAATGGAATCTGAACA
ATCTTCCAGAATCTAGTATCTTCTGAAAGTCTTCCATTGTATTAGCCACAACCATATGAAGTCTTA
AGGTCTTCAAAAGCCCTTGTAAGGAGGGTGACCTGGATGTCTCCANAATAGCTTGAAGTTTAGAT
CTNTGNCTCATTTTTNAGCAACTGTCANCTNTT

SEQ ID NO: 1946 GGGGCAAGACTGTGGATTTCACGCAGGATAGTAATTATTTGTAAACCGGGG
ACAGGATAAACTGTTACGCATATATGACTTGAACAAACCTGAAGCAGAACCTAAGGAAATTAGTG
GTCATCTTCTGGTATAAAAAAGCTCTGTGGTGCAGTGAGGATAAACAGATTCTTCTGCTGATGA
CAAACTGTTGACTTTGGGATCATGCTACTATGACAGAAGTGAAATCTCTAAATTTAATATGTC
TGTTAGTAGTATGGAATATATCCTGAGGGAGAGATTTGGTTATAACTTATGGACGATCTATTGC
TTTTCATAGTGACGTAAGTTTGGACCCAATTAATCCTTTGAAGCTCCTGCAACCATCAATTCTTGA
TCTTTNTTCTGAGAAAGATTTCTTGTGCAGNCGGNGAANATTTAACTTTTTAAGTNTGATNTTAT
AGTGGANANATTAGAATNCTCCANGGGCACTTGGNCCTATCCTGNGGAATTTAGTCTGAGGGAA
CCTNTTGC

SEQ ID NO: 1947 ACTTGTGTGAACCAAACAGTGATACTTTGCAGAATTGCACATTAGAACTA
GCTACACTAGGGGATCTGAACTTGTGGAAAAGCCGNTCCTTTGACTCTTGCTCCTCATGACTTC
GCAAATATAAAGCTAACGTCAAAGTAGCATCAACAGAAAATGGAATAATTTTTGGTAATATAGTT
TATGATGTCTCTGGAGCAACAAGTGACAGAAATGTGTGGTTCTCAGTGATATTCACATCGACATC
ATGGACTATATCCAGCCTGCAACTTGCACTGATGCANAATNCCGTCAGATGTGGGCCGAATTTGA
ATGGNAAAACAAAGTGACAGTTTAACACCACATGGTTGATTTAAATGACTACTTACAGGCACAT
ATTAAAGTCAACCAATNTGAAATTGCTGACTTCCAAAAAAGGCCNTTNTGGGTCTTGTTGGG
CTTTATTGGCAGCCNACCCTTT

SEQ ID NO: 1948 ACTCAGTATAAATGCAGATGCTTATGACAGCGACATAGAAGGCCCATGCAAC
GAAGAAGCAGCTGCTCCCGAGGCACCAGAAAATACAGTCCAAAGTGAAGCTGGTCAGATAGATG
ACCTGGAGAAAGCATTGAGAAAAGTGTGAATGAGATTCTAGGACTGGCAGAGTCTAGCCCAAACG
AACCCAAAGCAGCCACCCTGGCTGTCTCCTCCACCAGAAGATGTTCAACCTTCTGCACAGCAACTG
GAGCTGCTAGAACTTGAGATGAGGGCAAGAGCGATTAAAGCCCTAATGAAAGCTGGTGATATAAA
AAAGCCAGCCTAGGTATTTAACTTGATTTTGAATTTTAGGTATGTTTTGAACAAAGCCACATCATT
TAATTTTGGATCTAAAATTTATTTGGGGNCTTATATGTTATTTTCATGGAACCTTATTANGGACT
CATTTAGCCCTAAATTACCTGGTGGTGNCTTCTTTTATTTTGTCTACTTNANTTTATAAATGGGG
TACTGGCTATGAATTCTGGCATANGTTGGTAGCCTGG

SEQ ID NO: 1949 ACACACCTTTGTCCCTGGGTAAATTATATTCATTATGCCCACTGATGCAGCAC
GCATAAACCAACACCCCTGCATGGCTGAACAGGGCCTAATCTAGGACTGATGGGAGAAGGGCTTG
CAACCAAGATCAAGGTGTTTCTCCGTAATACTGTCTACCAAGCTGATCCCTACAAAAATGCATAT
AAAAGCAGGCAAGTTTAGCTACTGTGTGCAAGAGAAACCAGGACCTTGTTAAATAGTTCTCTCC
ATTACCATTTATTTCTCAAGGGAAGCTTAAAAAANCANCAACAAAACAACACATTGGTCT
GGCCACCTCAAGTCAATCCAACAAGCATTANTGTGGCATTTCAGTGGAGAAANGAACTTGGGGGGA
AATCCNTCAAGGTTGGNAGAAAAGCTCCCAATTAAGTGTCTGNCNTNTTTTCTCATTCAAGACC
ATCCNTTNTTTANACNCTCTGNCAATAAATGGGGTCANGCTTANGGCNTGNCANGGGACCAAAN
GACATATAACCGATTNTTGA

SEQ ID NO: 1950 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAGGANNGAANNNGGTTGACAACT
TCNGCGGTTGANTAGTTCCCATTTGAACAGACACAAGGNC AAAACGTC CAGGCTGANCTGGTAGTA
GTTATTCNGGGAGTGCCATTGGGNGCTTCCATATTTNCAATTTCTGCTTGGAATTTATTTTCTANCT
TGTCNANCAGGGGGTAATCATATATTAAGGTTTNCCTTAGCGTTACGACTTACNCCCAAATCCAGGN
TAATCAAGGNAAGCTNTCCCGAGCTTNCATCNGACAATTTGCTTTTNACATTGNANTTTGATTGNN
TGGATCACTTTTGCTCAGGGTTGGGNC

SEQ ID NO: 1951 ACTTTNTTTTTTTTTTTTTTTTTTTTTTNGAGAAATGTAAAACTCAGTTTAATTTCA
AGTTTGATAAANAATGTATGCCNCANTTTGTATTTTATAAACNCAACCTATCTTATTATAAAATAC
NAAATAAAAAAAGTGATNCGTTAGCTGTTATGAAGGGNGAAAACATTATATAAACTTCAAAAAGGC
TGCTTTCTGCATCTGCATNTATGTAATTTTCATGGNTCTCTACCAATTTTCATTTACAGAAAANAATCTC
TATAGCCAAATTATTGTTCACTTTTCATGCCCAACATGGGAAGGGGTAGGNGAANNNTNTGTNGGA
ATACAATTTATTGTCTGCTCCTCCCTCAAAGAGCCCTGTGTNTGGCCANTCTACACTCATAACTTT

SEQ ID NO: 1952 ACCATCGCACACACTATTGACGTCATTGGAAAGAAGGAAGACGACTTTGTCT
GCTGCCTTCTTTTGAGTGGCAAGCCACTGCACTGGACCCATCTCTGCTATTTTCTTTTCTGCCACT
TTCAAGGATGACCTCACTTCTGCAATGGTTTGAANAAATTCAGNGAAGTAACAAATTGTGTGATG
GAAACATATTTTCATGATGGGTAAACCACAAGAACCCTTAATGGGGGGCAGTAGTGTGGTGGTAGAA
AAGGAAGTCTTCTTGATCCTTTCTGTCCTCCACATTANATAGATCCCTGCCACCAACACCCATGTG
GCCACCAGCAAAGACAGCAGGAGGAGAGGCAGCCAGCCTCCGNTTTGNTTTTGTGTTTCCACA
GGGAAANGGACGCCTTGTTTGTGGGCAAACCAAAATTGTTCTNTTNTGTCCGNATNCAANCCCT
GCCNCCAANTANGGAAAANNTGGN

SEQ ID NO: 1953 ACTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTATTGGTCTCTTNTAGCA
NAGNGGCTCCAGGCCTTTCAGCCTNTCAAACACCACCCATGAGGGTTTAGGAAGGNGCCATCTT
CTGTGAAGGCCCAAAGCTTACCCAAGTCTTGAGCCCAAGTTGAATCACCAACCANAGGGTTGGG
AGAGGAAAAGGAAACAGGCAGAGGGGAAAGGCAAGGCTCTGCAGTGAAGGGGACTGATATCAA
GGGAATGCTGAGGTCCAGCAGTGTCTCCTGAAGGCATGCTGCATCCTAAGGCTCCTCAGGACTGG
ATGAANTAGGAGATCTGTGTGTTGAGCAAGTTCACATNTATATGGCAACTTTAAGGAGGCGCTTG
ATNTCAGGCTCAATGTNNATGNTTGGGAAAGNGCCGCTTGAANCGTCGAAAGGCTCTCCTCCGG
CCTTTGAAGAACTTTTAAAAGTTCCAGCCNATNTGANCGGNGNNAAGGCTCCAAATGATNAGCT
TGGGATCGGTCATGAGGAAAATGGGTATCATAAGG

SEQ ID NO: 1954 ACTACTTCAGGTAATCATTGTTTTACTTAAAGTTCAGATTCCAGCATATATTG
AGATGAATATTCCCTGGTTATACTTTGTCAATAGTTTTCTCATTGCTACAGTGTATTGGTTTAATTG
TCACAAGCTAATTTAAAAGACATTGGATTACCTTTGGATCCATTTGTCAACTGGAAGTGCTGCTTC
ATTCCACTTACAATTCCTAATCTTGAGCAAATTGAAAAGCCTATATCAATAATGATTGTTAATATT
ATTAATTTAAAAGTTACAGCTGTCATAAGATCATAATTTTATGAACAGAAAGAACTCACGACATATT
AAAAAATAAACTGAACTAAAACAACCTTTTGGCCCCCTGACTGATAGCATTTTCAATGNGTCTTTTG
AAGGGCNTATGATNCCAAGTTATTAATAGAGGTGTANTTTTAAAACAAAATTATTCCNAAGAN
GTTTTATTTGTTTTTNNAGGGACCCTATT

SEQ ID NO: 1955 CAGGTACTCTTTAAAAAGGGACTGCAGGGCTGGGTGTAGTGGCTCACACCTG
TAATCCCAGCACTTTGGGAGGCCAAAGCAGGTGGGTCACTTGAGGCCAGGAGTTTGAAGCCAGCC
TGACCACGTGGCAAAGGCCATCTCTACTAAAATACAAAAATTAGCTGGACATGATGGTGAATC
CTGTAATCCCAGCTACTTGGTAGGCTGAAGCATGANAATTGCTTAAACCTGGGAGGCATAGGTTG
CAGTAAGCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACANAGTAAGACTCTGTCTCAATAA
ATAAATANGAAAATAATACGGGACTGCAGTGCTAACAGTAATTTATACATTTTAAATGGTCNGA
GTATGTTTAGCTGGGCTANTGNACAATNTACTACCCNGAANGTGCAGTNTTTGATTGGTTTNGGNG
CTTTGGGTNNGGAAGNGAACTGTNCAAAANATTTNTTGNATGNATGGATTCTGTAATGCATTNC
NGANAAATNTGTTCTTCTTACT

SEQ ID NO: 1956 ACAGTATTCATTTATGCTTGAAATTCCAGTCCTAGACCAAGCTTGTGGCCACC
AGCATTGACGTTCTTGCCATCCANAAGAGCTGACAGTGTGAGTTTAATACCTGGCTTTAGAGTCTG
GTGTATCCTAAACCTATCAGGCTGGAGTTGTTCACTTTAGCCGANAAGCAGGCGTCAGGGTCAATC
TGATACTTGGCTGCTATTCCGAAGCGTGTGTTACTGTTTCTGCTGTCCAGGCAAGATTGACAGCG
GTCTCCAACTTCTTGTTCACTTTCTGGTAAATGGAGCCGCAAACTCTGTCCCGTCATTCACATTAGT
GNGAAGCTGGAATTCATNAGTCTTGNAGCCAACTGCAAAAGTTGCTCTGGGTCACTCNGGATTTTGC
AGTCTCAAAAATTATCTGGTAGCCGGGCAANCAGCCTNGTAACCTAGCACCAAGNACCCCGGAT
GGGAAGCCCAANAATGTNCAAAATCNTTGCNANCCAGGTANTGTGCTCCCGCTTGNACCTCGGCC
NGANCCNCTAAGGCG

SEQ ID NO: 1957 ACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTNTGCTGAGGGGGCA
GGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTCTCTTTGAAAGATAGAGATTAATACAACCTAC
TAAAAAATAAGTCAATAGGTTACTAAGATATTGCTTAGCNGTTAAGTTTTTAACGTAATTTTAAT
AGCTTAAGATTTTAAGAGAAAATATGAAGACTTAGAAGAGTAGCATGAGGAAGGAAAAGATAAA
AGGTTTCTAAAACATGACGGAGGTTGAGATGAAGCTTCTCATGGAGTAAAAAATGTATTTTAAA
GAAAATTGAGAGAAAAGGACTCCNAGCCCCGAATTAATTCCAATAGAAGGGCAATGCTTTTAAGA
TAAAAATGGAGGGTGANCTNANCAGCTTTAAAGTTAGTTTAAAAGGTGGNGGNGNATTAAAAAT
TANTTTTGAAGGCGAACNTTTTAAAANGAGGATTNNANCCGAA

SEQ ID NO: 1958 ACACATACACACCTAAAGAGTCATGGCCTTCTTAAACAGCTTCTTAATCCTT
TCTGGAAATATCCTTTGGTTTCATTTTTATTGCCCTCTCTAGGCAAAACAAAGTATGTAAACGCAG
GTATCAGTGATTATTTCTTAGCACTTGTAAGCAAATATCCTTACCAAGAGGAACCATCAACTTTT
ATAATATCGTAAAGCGTGGAGTTAAGATGTGTTTTTAAAAAATATACAGGCTTTTTATATGCTTGG
ATCTGAAAAAGGTAACATCCCAATGACATTCTATTACAGAGTTCTTACAATCACCTAGCCTACT
ACACTCTGGTATAATACTCTTTCTTCAATTCTGTTTAAACAGAATAAAAAAGTAACCAAAGGTAAAG
CAATGCATTTGAACTTAAAATATACCTGCCACAGGAATTAAGTAGTTTATTCCCCTCTATACAT
AATTTCTCAATCCCCTTTACCTNTGNCTTAAGGGGTAAGCACATAGTCTGCNCACAGATTGATGNT
ACCAAGTACTGTATGGATTATTGNATACA

SEQ ID NO: 1959 ACTTTTTTTTTTTTTTTNGGTTTTTTTTTTTTTTCNAAGCCATTACTTTTTATTTTG
AAANATTTGNGAACTCTTCACATCATGGNGANAGTTTGTNTGATTAATAAAAAANCAGCTTTTCAT
GAAATGCTTGGAGGGGAACAAGTTCTCAGCCTGNGANATCCNACCATCCCATTAAANTTTGAAGTT
TCTCTTGNTTAATANAAAAACAAAGGGGNGGNGAAAAAAGGAGGAACATGTAAAAACCTTN
TGACAATNTTCCAAATGTGNGGAAANAACAACCNATTACCAACTCCNTTTTTTTTATTTTACAANT
TGTCTACATNTCACTCTTTGNTTTGGGNCCTTCTGGCTGAAACAGNNTNGAANTCCCTAAACCCCT
GANAAGACCCCTGGTTTTNNAAGACCTAGGAGGAAAANGCCTTGAGGGATGCNTGGANCTNCN
AAAAACTAGAAANGCCTGGGCTCCCAAATTTTNAACC

SEQ ID NO: 1960 ACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGTGCGTTTAAAC
GGCAGCTTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC
CCTTTTGTGTAATTGCACCAAGTTTAAAGCCTCTGACAGAGCAGTATTTTCGTTTAAACCTTTGTT
TTTCTTAAAGCTTACAGTGTTTGGCTAATTCTCCTCCCTTTTACAAGACGGGGCCGAGGGT
GGACACTGGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAATTGAAGNGTAAACATG
GAGAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACCAGCCGGCCCTGTTATAAAATCA
GGAAATNCAAACAGCGATTACACCGATTACACCCCTTTATATATTTTACAAAAATTCTNCTGAG
AATAATCNAACGGTTTCATCTNTTTGGCTTTTTTGTTTTTTAAAAGGGTCAAANCCTNCTTTNAAT
ATAAAAAATTTAAAGGTTA

SEQ ID NO: 1961 ACAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAATTCTT
CCATGCTGGGGCTGATGTGGGCTAGTAAGACTCCAGTTCTTAGAGGCGCTGTAGTATTTTTTTTTTT
TTGCTCATCTTTGGATACTTCTTTTAAAGTGGGAGTCTCAGGCAACTCAAGTTTANACCCTTACTCT
TTTTGTTGTTTTTTTGAACAGGATCTTGCTCTGTCAACCAGGCTTGAGTGCAGTGGTGGCATCACA
GCCAGTGCAGCCTCGACCACCTGGCTCAAGCAAATCCTCCCATCTNCATCTCCAAAGTACTGGGA
TGACAGGCGTGANCCACAAGCTCCCANCTANGCCCTTAATCTTGCTGGTATTTTCCATGGACTAA
AGGNCTGGTCATCTGAGCTCACGCTGGTTACACAGNTCTAGGGGGCTGCTCTCTAACTCNNAGGG
GGTTTTNGTGANGCTCTTGTGGCCNAANCAAAGTGNATNTTGANCAAAATACAAAAGCCTTTTAA
ACCACNNGCCTGGATCTNCACTGGAAGCCANTTGGTGCCC

SEQ ID NO: 1962 ACCCTCAGAATTGATGTGTTGAGATCCTGACCCCTAAGGTGATGGTCCTAGG
AGGTGGGGTCTTCAGGTGGGCGGAGCCTCATTATGAGCATGAGTGCCCTGTCCAAGGGGGCCCCA
AAGGCTTCTGGCTGTCTCTTGGCCATGTGAGGACACAGTGGGAAGGCAGCCATCTACAACCCAGG
AAGCAGCTCTCATTGGAACCCTGACTGTGCTGTCAACGTGATCGCAGACTTCCAGCCTCCAGAACT
GTGAGGAGTGTCTGTTGTGTATAAGCCACCAATCTCTGGTGTCTGGGATAGCACCCATACACAC
TAANACAGGGGTTNCTGAGTGCCTGGAGAGCCAGCTCCTTCCAAGAGGCTGGGTCCCTCCTTCTTC
TTTCTCNTTTNTTTTCTTTATTTTTTTTTTGANATGGAGTTCGCTGTGTCAACCCGAGCTTGANTTCAG
TGNTGTGATCANANTTAANTGAAGCTCATNTTGGCTAAAGGANCCCTTCCCCTCANCTTCCCAGG

SEQ ID NO: 1963 ACTTCTGCTGCTGAAGTAATGCAATGGTCTCAATCTCTGGAAAAACTTCTTG
CCAACCAAACCTGGTCAAAATGTCTTTGGAAGTTTCTTAAAGTCTGAATTCAGTGAGGAGAATATTG
AGTTCTGGCTGNITGTGAAGACTATAAGAAAAACAGAGTCTGATCTTTTGGCCTGTAAAGCAGAAG
AGATATATAAAGCATTTGTGCATTGAGATGCTGCTAAACAAATCAATATTGACTTCCGCACTCGAG
AATCTACAGCCAAGAAGATTAAAGCACCACCCCGTGTTTTGATGAAGCACAAAAAAGCATATA

TACTCTTATGGAAAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAAT
GACCTGCAGGCTAATAGCCTAAGTGACTGGNCCCTGCTGAAGGGAATTAACAGATAGTTTCAANC
GCANAAGGATGTGCCAGATGGCTCCTGGGGAACAGCTTGGCCTTTTTGGGNGCTTGACAGGCNAG
AAAAACAAATGACTCAAATGGTTAACNTGAAGT

SEQ ID NO: 1964 ACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAAC
CCTATTAACAAGATGTGAAAAAAGGAAAACTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGG
ATATANTGGAACATATGGTGCCATCCCTCAGACTTGGGAAGACCCAGGGCACAATGATAAACATAC
TGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAATTGGAAGCAAGGTATGTGCAAGAG
GTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAGGGGAAACCGACTGG
AAAGTCATTGCCATTAATGTGGTGATCCTGATGCACCAATTATAATGATNTCAATGATGTCAACCG
GCTGAACCTGCTACTTAGAACCTCTGNGGCTGGTTTTAAAAGGATAAGGTTNCTGATGGAACCANA
AATGAGTTTGGGTTTANTGCGAATTANAGATAAGGCTTTCCTTTGTATTATTAAGCCATGACC
TTNAAAGCATTANTGCTAAAAAAC

SEQ ID NO: 1965 ACCTGTAAATGTCCTGAATCCAGCATTGTTGAGCTGTCATCAACATTCTTGTG
TCTGTTTACTGTTACAATATTAGGTGAATATGGAAGTAAAGGCATTCCACAGGATCATCATTTAA
AAAAAGAATTCTGGTCTGTTTTCTAAAAAATAAAGTGTGTAGAAATTTCTAATTTGGATCTATT
TATTAGTCAGAGTTTCAGCTTTCTTCAGCTGCCAGTGTGTTACTCATCTTTATCCTAAAAATCTGGA
ATCAGAGATTTTTGGTTTGTACATATGATCTCTTAACACTTTTATATTTGAAAAAATAAAATCTT
CTTTGGGGAATAAATTCTTGGGTATTCTTNCCTTACCAGATTATGGTATTAACCTGGAGATTCAGNG
GTTCCATACCCGTTAAGTTNTTGTCTAATATTTCANAAAGATTNTTGTNTTGGTGAAAAACCGGTTG
GGATGGGGGNTTTTTTGGTCTTGTGTCTCGGCCCGACCCCTANGGCG

SEQ ID NO: 1966 ACTTCATTCCTTTTTATGGCTGAGTAANGGNAAGGAATATTCCATGGAAACAT
TTTATTAATCCACTCATCAGTTGATGGACATTTGGGATGTTTGGGCTTACTTTACAGGTGTAATCAT
GTAAGCATATCTTTGCCTACTCCTTCCCACAAATTAAGGAAATCAAGTAGCAAAATGAAGGGCAA
GCANCTAAAACAGCCAGCAACTGGCACACAGACAAGGAAAAGCACCTCTGGTITTTAGGTAAGCC
AATGAAGAGTGGGGCCGAGATTTAATTTCNANCTAGGTTNAAACCCCTAACACTTTCAAGCTTGN
GTNTGAGTTGAGTCNATCCACTTAANCCTAAGCGCCCATGGGAAAGTCTTGGATCAGCTANGA
NGAGCTCCAAATTACCGATCACTGNNTTTATCTGTCTCCNGGACTCCTAGATTTTTTGAANCA
CTCATNGGCCACCAANGGGGCTGNGGNTGGGGGTTANATAGNAAAACCTTAACTGTCCCAT
TTTNATTAAAAGAA

SEQ ID NO: 1967 ACGCGGGGACCTCATTCTTCTACCGGTCTCTAGTAGTGACGCTTCGGCTGG
TGTCATCGGTGTCTTCCCTCCGCTGCCGCCCCCGCAAGGCTTCGCCGTCATCGAGGCCATTTCAG
CGACTTGTGCGACGCTTTTCTATATACTTCGTTCCCCGCCAACCGCAACCATTGACGCCATGTGCG
GTTATTCGAGTGACCGAGACCGCGGCCGGGACCGAGGGTTTGGTGCACCTCGATTTGGAGGAAGT
AGGGCAGGGCCCTTATCTGGAAAGAAAGTTTGGAAACCCCTGGGGAGAAATTANTTAAAAAGAAAGN
GGAATCTTGGATGAGCTGCTAAATTTGAGAANAATTTTTATCAAANAGCACCTGATTTGGCTAGG
CGCACAGCACAAGAAGNGGAAACATACAGAAGAAGCNAGGGAATTACAGTTAGAAGNCCAACN
TGCCCCAAGCCAGTTCTAAATTTTATGAANNCCAATTTCTTGCAAATGCATTGGATGTTTTTGN
ANAAAAAATTNNCTTGACCCNCTTGTTTTTAACNCAAGGATGGGC

SEQ ID NO: 1968 GCGTGGTCGNGGCCGAGGTACGTTTCATGACCAAAATTTATCATCCTAATGTA
GACAAGTTGGGAAGAATATGTTTAGATATTTTGAAGATAAGTGGTCCCCAGCACTGCAGATCCG
CACAGTTCTGCTATCGATCCAGGCCTTGTTAAGTGCTCCCAATCCAGATGATCCATTANCAAATGA
TGTAGCGGAGCANGNGGAAGACCGACGAAGCCCAAGCCATAGAAACAGCTAGAGCATGGAAGT
GCTATATGCCATGAATAATTTAAATTGATACGATCATCAAGTGTGCATCACTTCTCCTGTTCTG
CAANACTTCTCCTCTTTGTTTGCATTTAATGGGACACANGTCTTTAGAAACATTACAGAATTNAA
AANGCCCAGNACNTTTTCANGCCTTTGGTGATTAATGCACATTANCAAATCTATTGNCTNGTCT
GATTCACTGTCTTAAAGCATGAGCANAGGCTTGAAANTNTCATCTGGGATT

SEQ ID NO: 1969 ACGCGGGGAGCACAGTTCTGTCCAGAGAAGGAAGGCAGAATAAACTTATTCA
TTCCCAGGAACCTTTGGGGTAGGTGTGTGTTTTTACATCTTAAAGGCTCACAGACCCTGCGCTGG
ACAAATGTTCATTCTGAAGGACCTCTCCAGAAATCCGATTGCTGAATCTTCCCTGTTGCCTAGA
AGGGCTCCAAACACCCCTTGACAATGGGAAACTGGGTGGTTAACCCTGGTTTTTCAAGTTTTGTTT
CTGGTTGTTTGGTTAGGGCTGAATGTTTTCTGTTTGTGGATGCCCTCCTGAAATATGAGAAGGCC
GACAAATACTACTACACAAGAAAAATCCTTGGGTCAACATTGGCCTGTGCCCGAGCGTCTGCTCTC
TGTTTGAATTTTAAACAGCACGCTGATCCTGCTTCTGTGTGCGCAATCTGCTGNCTTCTGAGGGG
CACCTGCTCATTTTGCACCCACACTGAGAAAGCAATTGGATCACAACTTANCTTTCACAAGCTG

GTGGCCTATATGATCTTGCTACATACAGCTATTCACATATTTGC

SEQ ID NO: 1970 ACAAATGTGGATCACACTAAAGACTCTGAGCCACAGTCTCCTGGCATTGGA
ATATTGGTCATGTTTCTTTATTACGGTTCTTTGTTCTTAAGTATGGTTGTTATTGCAAAGGATTTTC
TAAGTTTCTTTGTTTGCTTTTAAACATATCAAGAATGAGATAACATTTTACATGGGAGAGATCT
GTGCCAAACAGAAAGAGAAAGGGGACAGGCCAAGCCTTTATGCCTGAGAAATTGTGGGGGAAAA
TAGAGGGACAGATGAAGTGAGTCGGTAGGGTGCTGGGGTCTCTCTTTCACACCCATTCTTTTTTC
AAGACAACACTTTTTGTCANANGTGGGGCTTGCCCTTAAACAACAACCAGATGGGTATCANGGTGC
CTACTAAACTGGGCCAGGAACTTGGTTCCTGACATAATAGGGGAGATTGCAAGCCTCTAGAAA
AAGCTCCATGTGGCCACTTCTACATTGCACAGGAGCCAAGGTGANGACTGCNAAAGCANACAAGT
GGATGGGTGANCTGAAACACGGTANTAGTTCATGGGCCCCAAAATNT

SEQ ID NO: 1971 ACTTCTGATAGCTCATCACTTCTGTGTCAGAACTTTGAAAAGCAAAGACAGG
ACATCGACTTCCTTCGAGACTGCCTACTGATTCTTCTAGAAGACAGAGATCTACTGGGGTAGTCCG
GGACTGACTGCAAAGAGCCTCAGGTAAAGCAGAGGCCATTGGCAGCCTAAGGTTGGCAGTCAAA
GAGGCTGCGGAAGGTTGAAAATGAAAAGGAGAGTAAGCAGAGGGGATGATAAGACCCAAAACCTC
TGATGGGATCAGGGTCTGTAGGAAGAGANAAATGAAGCTGGGGAGAAATCCACTCANGGAAGGGC
CANCANAANGCCTGTANTAAAGCCTCCAGGATGTTGCAATGGANCAACTGTGCANAGCTTAATGA
GCTCCCTGAAAAACAATGCCNCAATAGGGTGCAAAAGGNGGGTCTGGGGAGGCCTGTGGGACA
AGACGCCGACTGTGGGATCCAGTCNCACAAGTGCCAGCACAGGGCCTTGCTGAATTGANATGCA
TCAAACTGTTGGGANGAACACTT

SEQ ID NO: 1972 ACGAGAAAAGGGTCCGAGCACAAGCCAAGAAGTTTGCGCCCTCATAAGCAG
CGACCTTGTTGGCATCGTCAGAAGGAAGGGATTGGTTTGGCAAGAACTTGTTTACAACATTTTTCGA
AATCTAAAGTTGCTCCATACAATGACTAGTCACCTGGGGGGTTGGCGGGCGCCATCTTCCATTG
CCGCCGCGGTGTGCGGTCTCGATTGCTGAATTGCCCGTTCCATACAGGGTCTCTTCCCTCGGT
TTTTGTATTTTGTATTGTTATGTAAACTCGCTTTTATTTTAAATATTGATGTCAGTATTTCAACTGCT
GNAAAAATATAAACTTTTTATACTTGGGGAAGCCCCANGGGCGANTTNTCTCTNTTGGATGCA
AGGCATGNTTTTTACCCGGGNAAAAANTGNACTTGGCTAGNTGGGTGTAAGNAAAACCCCCCTCC
TCCTGCCCTTCTTTTTTAAACTTTNAAAAACNNGGGTGGGTTTTTTTTTA

SEQ ID NO: 1973 ACACGAGAAGCTCCGAGGATGGCTGAAGTCCAACGTCTCTGATGCGGTGGCT
CAGAGCACCCGTATCATTNATGGAGGCTCTGTGACTGGGGCAACCTGCAAGGAGCTGGCCAGCCA
GCCTGATGTGGATGGCTTCCTTGGGGGTGGTGCTCCCTCNAGCCCGAATTCNTGGACATCATCAA
TGCCAAACANTGANCCCCATCCATCTTCCCTACCCTTCCTGCCAAGCCANGGACTAATCANCCCAT
AANCCAGTAACNTGNCCTTCCCTGCATATGCTTCTTGATGGNGTAAATCTGCATNCTTCTTGTG
GCCTCANNCAAACCTGNTTCTTCCCTTANNTGTTTATATTTTATACCCCTGNNNANNGGGTTGGA
NNCNAAGAGCCAAATCCCTTGTTCACCTTANTTATAAATGGNTGGNAACCTAAACGGTGNACC
CAANGGTNGGCTTTNNCCTTTGGCNTGA

SEQ ID NO: 1974 GGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANCTTANCTTTTCTGCAGCAT
GANATTTACTGGCANAATTTTTTACAATANATTTTAAATCTGTATCTGTAAATAAGTTATTGNCTG
AGTTTGNGTCCNCAGGCTCATTCTCANATANATGCTGCTCCTTATTTTTCCACAATGAGGGNGTAN
CAGGTTGNGTTTGTNTAAAAANAACAANACGTTTCTATTCTTGCTGATTGCATGAANACATTT
CTTGATTTTCTTCATCCCTTCCCTTTTTTGGTANACGGCTGAAAGNANTTCTGATGGANTTGGT
CTGNTGCTGCNTGAAAACCCANCTTNCCCTTATTATANCTTGGCCANTTTAATTTGGNGAAAGCTG
ATAGTTTGGGATCTTNTATNTAACCNAAGNTTNGATACCNTNCTNTTATTATTANANCTTGTGTTG
CAGGACTCCTTTACAGNGGGGNGNATCTTG

SEQ ID NO: 1975 ACAGAACACCCTAGACAATTCAAGGCATCTTAATCTCCATCAAGAACAAAAA
AAAATAATTTTGTGTCATGCTGTAAATCCATCATTATGGATAAAACTGGTGCAAATTGGTCAAACG
GATCCAACAAACACTGATGTCCAAGCTGGCATATTGGCAACTAATACGTAACTGGTGGTCAATA
GAGAGTTTAAAGATCTTCCCTTCTTCTGTTCTTTTCCAAGGTTCTTGAAGAGTTCTGTTGTTCTA
AAATACGTTGTTGAGCTTCCAGTTTGCTTCTCATCCTCGAACTGACGACGTTTTTCTCCAATTC
TTTGGCTGNGCTTCCAAATCTTTTNTTGTNTCAATGGGGGCCGGTGGAGCTCACCTTCANAGTCCTT
CTTCTTCTCCATTTGTGCCAGAAGGGCTCTANTCAAGCTGCCCTTTATTCTTGTGTTATCACT
CCATTATAAGTCACAGCTGCAAGGTTTCTGCTTCTGNNGNTCTCATAGTGGACATTATTAGTAACA
TCTTCAAGTCTGTCATGTGTGTTCTTATCACATATTCTTANG

SEQ ID NO: 1976 ACGCGGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGGTTTTAGACAGATT
CATGTTATAGATATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTATTAGGCCTAAA
GATATTGGAAGACCTAAGGCTGAAGTTGCTGCAGAAATTTCTAAATGACAGATTTCTAATTGCAAT

GTAGTTCCACATTTCAACAAGATTCAAGATTTTAACGACACTTTCTATCGACAATTTTCATATTATTG
TATGTGGACTGGACTCTATCATCGCCAGAAGATGGATAAATGGCATGCTGATATCTCTTCTAAAT
ATGAAGATGGNGNCTTAAATNCNANCTCATTGGCCCCCTTTGATAGAATGGGGGGGACAGAAGG
TTTTAAAGGAAATGCCCCGGGNGATTCTGCCTGGAATGACTGCTTGTATCGAATGCCCCGCTGGAAC
TTTTCCACCACAGTTAATTTTCCCATGGCACCATTGCATCTATGCCCAAGCTACCAGAACTGG
NTTGAGTTTGAANGATGTTGCAATGGCCTAAAGANCAACCTTTTGG

SEQ ID NO: 1977 ACAAAAAGCTGCATTGGAGGATAGCAGTGGCAGCTCCGAGTTACAAGAAATT
ATGAGAAGACGACAGGAAAAAATCAGTGCTGCCGCTAGTGATTACAGGAGTGGAATCTTTTGATGA
AGGAAGCAGTCACTAATTTGTTTGTATTAACTCCATTGTTTTGGCATTATTCCAACATGC
TTTGTTTTAAGAAGCCTTGAAGGGAATGTCAGATTCATTTTCTTGATGTAATTTATCACCATAAAA
AAAAAACCCATGCNAACCTNAGTGAGCACAGGATTTGCTTCTNGCCCATTATTTTTATTAAACTG
AAAAATTTTAACTGGATTTTTTGGNCTTGGAAAAAANTTTTTCTTACTTTTCCAANGGGGAAGTT
TCCTTATTTAGACTAANTATTTTATCCCCATNCCANGGTATAAACAGGAATTGNTTTGATAGGGG
GGGAGTTATTCCTGCNACAAAGCAACATGTTGNCCTGATTCAAAATCNAANCAGTTCCAATTTGCC
TGNGAAATGGNGCTGGATTNAGGCTACTCACTGGAGGCTACCTTG

SEQ ID NO: 1978 ACTTCATTCCACATTCAATCAAAGCAAGTGCAACCAGCACAGGTGCCCTTCC
CAATCCTGCAACACAATGCACTGCAACACAGCAACCTGGCTCTTCACGAAATTTGGTTTTTAACAG
GTTTAAACCAATCATCTACTATCTGATTAGGGGGTGGAGCTCCATCATCAAATGGCCAATCTANAAC
GTGGATTCTTCTTTTCAACTGGAGCTTATCATATGTAGCATCAAACTCGAACCAGTGCAT
CACTCCATACTTCTTAAGTTCTCTGTGAACTTGTTGAGAGTANCATTGGTAGGGTGTGAGTTATC
AAAAAACGCATGTTCTCATAGGAAATCTCCACAGGGGCTGGGCCGGTCATTATGGCAAATAAAAA
TGTGAACGTGCGTGTGAATGTGATNGGGAAGTGAAAAAATCAATAAATCTTGAAATGT
TTCACANGCAGAAAACATTAAAAAGACCACTAAATGCCTATTATCAATCAGTGTCTCTCTATTC
AACTTGTTATTCCTTATGAAGCTTCTCTCTCAAGATAAGCAAAGTAT

SEQ ID NO: 1979 ACGCGGGATCATCAATGCCNAACAATGAGCCCCATCCATCTTCCCTACCCTTC
CTGCCAAGCCAGGGACTAAGCAGCCCAGAACCCAGTAAGTGCCTTTCCCTGCATATGCTTCTGA
TGGTGTCTATCTGCTCCTTCTGTGGCCTCATCCAACTGTATCTTCTTTACTGNTTATATCTTCACC
CTGTAATGGTTGGGACCAAGCCAATCCCTTCTNCACTTACTATAATGGTTGGAACATAACGTTNACC
AAGNGGCTTNTNCTTGGCTGAGAAATTTGGAAGGCGTGGTGGGANTTGTCTTGGGTTCCCTAA
GCCCTTNTNAGGGCAGAAAAAGAAACATTTCTTCCNTTNTNANCCGGGANGGCCANAANCCC
NTNAAAANGGCNNGAAGNGCTGNCNTTTTTCCATGGTNCNCCGGGTNTCTGTGCTGTGTATNNNA
ACCACCCATGNGAGGGAATAAACCTGGCCCTTTGGAAN

SEQ ID NO: 1980 ACAAGGTGAATATCTTAACCAGACTTGCCGCAGAAATTGAACAAATTTATGCT
GGAAAAAGTGACTGAGGACACAAGCAGTGTCTGCGTTCCCCGATGCCCGGAGTGGTGGTGGCCG
TCTCTGTCAGGCCTGGAGACGCGGTAGCAGAAGGTCAAGAAATTTGTGTGATTGAAGCCATGAAA
ATGCAGAATAGTATGACAGCTGGGAAAACTGGCAGCGTGAAATCTGTGCACTGTCAAGCTGGAGA
ACAGTTGGAGAAGGGGATCTGCTCGTGGAGCTGGAATGAAGGATTTATAACCTTTTCAGTCATCA
CCCAATTTAATAACCNTTTTGCATGATGCTTTACACACAATTGGATTCAAGCATTNTACAGGAAC
ACCCCTGTGCAGCTACGTTTACCGTCTGCTATTTATCCACAGAGTCAAGACCAATATTCTGNCAAA
AAATCACCATGGGAAATTTTCATTGATATAAATACTTTGTCTCGCCGCGACCCGCTTAGGGCG

SEQ ID NO: 1981 ACCTCGTCTCAAAACCTGGCTGCTATCAGAGAAGAAGGGTGTGGGGTGTG
TTTTACAAAGCCGCTGTGATTGGAACCAGGCTGCATGCTGCTGTGGCAATTGCTTGTGTGTAATG
GCCTTTTACGTCCTGTTTATAAAATGAATTCCAAAGCACCCAAGTCATCAACTGCCAACCAAGGGG
ACGGGGATGAANAACCTGTTGGAGACCTGAACCCAGTGTAGGAGAGTTTCACTGAAATCATCGGT
CCCCAGGATGACACCACAGCATCTGCCCTGCTATATGTGGGGAAACTCATGGTCACGAACATT
ATTTATGCTTNNANGGACTACANAAAGGCCNGCTNCTTTGANCTATTNNGGAAANTAAGCCCTTG
NNAGANAGCATATTATGTCCGATTAAATTNACCCCTCGNTGNTAAGATTCATACCTCCTTTTTA
NAAACCTGTC

SEQ ID NO: 1982 ACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACT
TGAAATTATTCCTGCAAGCCAATTTGTCCACGTGTGAGATCATTGCTACAATGAAAAAGAAAGG
TGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGG
AAAGGTCTAAAAAGATCTCCTTAAAAACAGAGGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGG
ACCACACNGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGNTCT
TAGTTTGCAGTTACACTAAAAGNGACCAATCNTGGGNCACCCAAATTCAGCTGCTACTACTCCTG
NNGGGAAAGGGTAATGNTCATCATCCTAAGCTATTCAAGTAATAACTCTACCCTGGCACTATAATGT
AAAGCTCTACTGAGGTGCTATGTTCTTATNGGATGTTCTGACCCTGCTTCAAATATTTCCCTCACCT

TTCCCATCTTCCAAGGGTATAAGGAATTTTCTGCTTTGGGGTTTATCAG

SEQ ID NO: 1983 ACACTTCTGTTTATATTTAAACAACAAAGAAAAAAGCATCTACACACTTAAA
AAATTAATTCAATATTCCTAAATCTATTTTAACTCATTTTAAAAATACTACATACAGAAGCCAGAAT
GCAGAGTTAAGAATGGAATAAGGTGGGGAGAAGAAGGGGACCACGAAGAAAAACACTTAGACA
ATTACTTGTCTGTTGTGGGTAAAGCAACAGGAATCCTGGGAGATACAAAGAAATCAGTAACAACT
TTGCTCATAACTGATATTTTCCCCTCATGTTTGNTTTTAATAACGTCCATATGGGTGCTCTCTGTAT
GCTCCCTTCTGGCCTAACANGANGGNCCTTTAACCGACNCGCNTGGTCCCATTCCAGTCGTCCTG
GCCATAAGCTTATAANAATCTTGGACCCCTCCCCTGTCCATAGTCATAANTATTTCTGAGTCCCCTTG
ACTCTGGCTGNAATAACCCCTTCGTAGCCTTCGNAACTTTTGTTCTNNGGGNTGNTCATNANTANCC
ATATTCTTCTATGTTTCTGGNGCAAGA

SEQ ID NO: 1984 ACGCGGGGGTGGCGCTTCTGCGGTAAAGATGGACGTCCACGATCTCTTTCGC
CGGCTCGGCGCGGGGGCCAAATTCGACACGAGACGCTTCTCGGCAGACGCAGCTCGATTCCAGAT
AGGAAAAAGGAAATATGACTTTGATTCTTCGGAGGTGCTTCAGGGACTGGACTTTTTTGGAAACA
AGAAGTCTGTCCANGTGTGTGTGGAGCATCAAAACACATCANAAAGCCCCAAAATGGNGAGAA
AAAAGAAGAGAGCCTNACTGAAAGGAAGAGGGAACCAANCATGAAAAAAGGGAGACGATGA
CTTCAGAAATTGCTTTCCAAGAAGAAAGTGCTTCTTATTCNNGGGGATGTCATTCTNTTTAANCCA
ATAATTGGATACAAAAAAGTTCANANNNGAAANNTACNAACTTCCGGAAAGTTTGGANAATCTN
AANAAAAGAAAAAATNAACTTCTTGCAGGAATNAACCTAANTTCACGTNCAAGGACCNATTTTCNT
NACCCNATTGTTTCATTTACACTTGNC

SEQ ID NO: 1985 ACGGGGATGTGATGGATGTCTTTCATCCCCAAGCCATTCAGGGCCTTTGCCTTT
GTTACATTTGCAGATGATCAGATTGCGCAGTCTCTTTGTGGAGAGGACTTGATCATTAAAGGAATC
AGCGTTCATATATCCAATGCCGAACCTAAGCACAAATAGCAATAGACAGTTAGAAAAGAGTGGAAAG
ATTGGTGGTAATCCAGGTGGCTTTGGGAATCAGGGTGGATTTGGTAATAGCAAAGGGGGTGGAG
CTGGTTTGGGAAACAATCAAGGTAGTAATATGGGTGGNGGGATGAACTTTGGNGCGTTCAACATT
AATCCAGCCCTGATGGNTTGCAGGCCAGGCCACACNACAAACCAATNNGGGTNNNGATGGGCATNT
ANCCACCAGCANACNNGTCAGGCCCANTCGGGTTAATAACCAANCAANGCCACATGCANNGGG
AGCCAACCCGGCCTTNGGTTCTGGAATAACTCTTATAGTGCTNTAATTCTGGTNCANCCAATTGG
TTGGGGATCAGCATTTCATGCAAGGGCCGGGCANTGGGTTAATTGGANGCT

SEQ ID NO: 1986 ACTTGAACCTGGCAGGAAATGCATCAAAAGACTTAAAGGTAAAGCGTATTACC
CCTCGTCACTTGCAACTTGCTATTCTGTGGAGATGAAGAATTGGATTCTCTCATCAAGGCTACAATT
GCTGGTGGTGGTGTCAATTCACACATCCACAAATCTCTGATTGGGAAGAAAGGACAACAGAAGAC
TGTCTAAAGGATGCCTGGATTCTTGTATCTCAGGACTCTAAATACTCTAACAGCTGTCCAGTGTT
GGTGATTCCAGTGGACTGTATCTGTGAAAAACACAATTTTGCCTTTTGTAAATTCTATTTGAGCA
AGNTGGAAGTTTATTANCTTTTCAAACCAACCAAAATTTGGATTTCNAAGTCNTNANCCNTNTTA
AGTGGANCTTGNNGCTTNAANAANCTTTTGATTCTGAATTANNAGGTTTGGTTNATNTGACTGTN
TTTAAAAAAGCTGTNNGGNTTCNATTGGGANGCAANAANTTNTNNTTACCATNATTTGNTTTTTTCC
TGCCCGGGCNGCCT

SEQ ID NO: 1987 ACGCGGGACCAGAAAGAGTAAACCCTTTTATGACAGGGGCTGCAGAACAAA
TCAAGCGCATCCTTGCTAATTTCAAAAACCTACCAAGTTCTTTATTTGGTGAACATGAATCCAGATG
GCATGGTTGCTCTATTGGACTACCGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAAGGATG
GTTTANAAATGGA AAAATGTAAACAAATGTGGCAATTATTTGGATCTATCACCTGTCATCATAAC
TGGCTTCTGCTTGTATCCACACAACACANGGACTTAAGACAAAATGGGACTGATGTCATCTTGAG
CTCTTATTTATTTTGGNCTGGGAATTATTTGGGAGTGGAGGCATTGTTTTNANAAAAACANGGCA
AGGGANGGTNNCTAAAAATAAATNGCATTTTAA

SEQ ID NO: 1988 ACTTTCTCAAATCCCTATAAAGAATTACTTGTTATCTATTA AAAATCTCCTTTA
CCCAATCTGTATTATGGTTTCGCCAGACAAATATTATGTGATGTAGCCAGAAAATCCACACCTT
TTGTCCTTTTTATGTTTTAATTTGAATAATCATGTGCTTAGTCCCTTGGTTTACTGCCACATCAGTTT
AACACGATATCAGCACATTCCTTGTCTATCATCAAGGTGTTGGCTCAGATTTATTCTTAATTGGAT
GTTTAAAGCATGTACGCGGGGACTGAAAGGATTCTTTCTACATTATACATGTGTGTTGNCATATT
TGGCTTTTGTATATCTTTAACTTCATTGGTAAATTTTNGGATTGGGATAGTCTTTNGGGGAATC
TAAAAACCTATTTTTGAAAAACAACTTTGGCTTGATAATCATTTGGGCAGCTTNGGGTAAGTAC
C

SEQ ID NO: 1989 ACAAATACTTGTGCCACAATGACTCCTCCCCCTAGCTCCACGGCATGATACAT
ACAACCAGTTTGTATACACTAGGCCTGCTGAGGCCATTTTAACTATGAGGACTTCTAGTTTAGTA
AACTAAAGCTGCAGGGTGC CGGGGGAGTGGGGCAGCTTCATTTGCGACTGCTCTTTATTCTCTCCA

GTCTTTTTTTCAAGTCGTCTATGTTAGCTGTGGAGGAGGAGGAGGTCACAGTTCCTGAAGAGTGAG
TCTGGTTAGAATCCAGGTCTGAATGCTGGTGCTGCCGAGCTCCGAGCTGAAANAGTTTGCT
TGTGGAGCATGTCTGNNGGAAAAAGCGACAGTAGGAACTGCTGGTTTGGANAGCAAAGAAGGTCA
AAGGANGTCGGTCATCTTTGCTTTGTGTTGCCANACCACATCGCTGNCGGAGGATCTTTAGCCTTC
CAAGTAGACAGATGGCCCCACTTCTTCCCCATTTGTGTTACCTATGGAGGACACTGTGCTTGTGGG
CGTGGGCACACATGTGACTTCCATCTGANGGGAGATCCTGTTGAAGT

SEQ ID NO: 1990 ACGCGGGGGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGAGAACCCC
ATGCGGGAACTTCGCATCCGCAAACCTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAGACAGACT
GACGCGAGCAGCCAAGGTGTTGGAGCAGCTCACAGGGCAGACCCCTGTGTTTTCCAAAGCTAGAT
ACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGATTGCTGTCCACTGCACAGTTCGAGGG
GCCAAGGCAGAAGAAATCTTGGAGAANGGTCTAAAGGTGCGGGAGTNTGAGTTAAGAAAAAACA
ACTTCTCANATACTGGAACTTTGGGTTTTGGATCCAAGGNACNNATCGNATCTGGNNTTTCAAAT
TTGACCCANGCTTTGGTTTTCTACCGGCTGGACTTTTNTTGTGGNGCTGGGTAGGCCAGGTTTTCA
GCATCGCAACAANAATCGCANGGACAAGCTGTNTTGGGGCCAAACACAGAATCNGCAAAGANGA
GGNCATGCCTGGTTCCAGCAGAAATNTGATGGGATCNTNCTTCTTGCAAATAAATTCGCTTTCTAT
CCAG

SEQ ID NO: 1991 ACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCCAACAA
TTCCTGAAATGGTCCCTTAACTGGATTATTACAGCACCAAAAACTTCTCTGAAGCCTTTCTCCAC
AACCTTGTTCTATGGATTCCATAATGTTACAATGGATTAAAGCTATGAAGCCTCAAAACATCACGA
GATAAGCATGATGGTCTCAGACTTGGGAAAACTGCCTAATATTATGCTGTAGTGAATTATGTTTA
GATTTGAATTCATCTGTGAAGCATTCAAATCAAAAGCTAAAAGCCTAAATGTGAAATGCTAATGA
CAAGNCCTGAGAAAGGNAAACTGGGAATCNTNNTTTCTNTCNTTGNNCCTACCTTTNAAATATTT
GGATCAANNTTATTTAAGGGGGNTTGAAAATGCTATTGGNAGGNGGNCNACCTANNCTATCAACT
TTCAGTCTTCCNCANCTTCAATCCTGGCAATNATTCTAATCTACTCTACTTTAAATTTTAANGTTA
TGAGGTTANGTAAAAGCAACATTT

SEQ ID NO: 1992 ACTGGTCCAGGAGTTATCCAGGATAGATTTTCACCCACCATGGGACGTCATC
GTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCCACACAATCGCAGTTTGGAG
AGATGGGAGGCAAGTTTATGAAAAGCCAGGGGCTAAGCCAGCTCTACCATAACAGAGTCAGGG
ACTCTTATCCAGCTGCAAGGACAGTCGAAGGATATGCCACCTCGGTTTTCTAAGAAAGGACAGC
TTAATGCAGATGAGATTAGCCTGAGGCCTGCTCAGTCGTTCTAATGAATAAAAATCAAGTGCCA
AAGCTTCAGCCCCAGATACTATGATTCTTCTAGTGCACAACCACCACGCANTTAAACACCCACTT
TTGGGACAGAACACCTTAAGCTTGGTCTCAAACTAATCCACCACTTATCCAAGGAAAAGCCTGC
AAGACCAGCAAAAAGCCCCACCGGTCAAAGGAAGACTCCTTAACTACTGAACTGGTGTGACTG
AATATCTAAATAGTGGAATGCAATGAGGCTGTCAATGGTGTAAGANAAATGAA

SEQ ID NO: 1993 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGCTCGCACTAATAACTTTTATTTTAC
TCANAGCAGTAATCTTCCATACATAAGTNTNTCCCTGCCAATAATTCAAANAAAAAATCCAAA
ATGATTAGTAAAGAAAAATATNAGANTTAACAGGCCCTTTAAATTTGTTTTAAATNTTTGAANAT
TTAAAAAGTGTTTAAAGTTTGNAATTCCTAGNAGGAAAACATTNTNTGAATGAATNCCCTANTGG
CAAACCNTGGAAATGCTTCAGCTGCATTTGGGGGAGAGGGGTAGGGATTTTCTTTAAAGCACCC
CACTCTTTTGATNAAANGNAAGAAGGCCTTNGNCCNCNNCCCCCAAGGGNAATTCNNGCATCCTN
GGGGCCGNTTATTANTGGGANCCNAGCTCGGANCCAACTTNGGGNAAATCATGGNCATTAGCT
GTTNCNNGGGGNAATTTGTNATCCNTNACAATTCNACANNTTACGAACCGGAAGCTAATGNGTT
AA

SEQ ID NO: 1994 ACATTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAAAATTGGCCTTTT
ACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTT
ATACACGGGACAGTTGCTGGCATGTCTTCAITGGCTATATAAAATGTGGCCAAGAAGATAGGCTCT
CAGTAAGAAGTCTGATGGTGAGCANTAAGTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGAC
CATGTGAATCTGGGTGGGATAATGGACTCAGCTCTGTCTGCTCAATGCCATTGNGCAGAGAAANCA
CCCTTATGCATAAANCTTTTAAATGCTTGAAAAANATAGNCNGTTGAATTTAAATGCCCTTTTTC
AANAGGNGAANTTAATTGGACNGTCTNGGNACTTCAAAAGCTTTTNGATGTATAAAACTTGNTA
AATGGAACTATTCCNTCAATAGGCAAAAGTGTAAACAACCTATCTANATGGATAGTNTGTAATTCN
GCACANGCTNTGTTTATAAATACATCACTGGNTACCGTCCA

SEQ ID NO: 1995 ACACTCTTCCAGCGGAGACATTTGGACCTTGTTGGGAACAGTGCTTTATCCAT
TCCTTGCCATCTGGAGATTAATTAGCAATTTCTTGTTAGTAATCCGCCCTCCACACAGACTTCAGT
GAGAGTAACATCGTCAGAACCCCAACCCCTGCATCATCTAGCAAATCAGAAAAAAGGGAACCA
GTGAGAAAAAGAGTGCTGGAAAAACGTGGAGACGACTTTAAAAAGGAGGGGAAAATTTATAGAT

TAAGGACTCAAGATGATGGTGAAGATGAAAACAACACTTGGAATGGAAAATCCACTCAACAGATG
TAGTGTGCAAGTATAATATGTGCAATAATCATTGGTTCCCTCTTATGAATTNAATTCACCTAAAATC
TTCTTGGAGAAGTGGGGACTGCTTTATATTTCCAACCTGGTCTATAAAATGTCTCTTTATTCCTGCTT
AGNNGGGTGTGGGTTGAANGNGGTTTAACTCAGAAAAGTAAANACAGGAAATAAATCTCTGCTAG
NCCTTGCTTATATGGCACCCTGCTAGACCCTAAAAGAACNAAAAATCTGCC

SEQ ID NO: 1996 ACTGCTTTAAAACACAACCTCCAGAGCCCCTCCCCAAGCTCCCCTCCCCAAGCT
CCTGAAGACCCGGTTTCTGAGGGAGGGAAAATTGCTACTTGGATTGAGAGTAGCTGGAATGTAAGT
GACCCCAGGCTTTGCCTCAGGGCCTTTAGCCTATGTCCCCCCCACATAAAGAGAGCTTCTCAGAGC
CTGACTGAAGAGCTGACGTTTTGCTTTTTTCATATGCCAATTAACCCCGGTCTAAATCCAAATGCTT
CTCCAGCCATCCAGGAGTGGCTGTCTTTTCAGTTTTGTCTTTTATATAGGTAGCTGAGGGGGAAG
ATTANAANCCCTNGCNCTCNCTAATTAGATTAAACAGAACAAAGGCTTGNTTTGGTTNAAATTGTTT
CAAAAGTCCAACAGACACACACTGAGCAGGNGTTTACACNCACATTCCTTTTTTGCCCCCTAAAT
AGAAANGTGCAGGNAAGGTTNTNCCAACAAGAAAGCACATNGAAAATAAATTTGTACTCTAACAA
CCATTANCATGTGTANGGGTTACGGNGAGGACACTGTGTTGTTTCATAAA

SEQ ID NO: 1997 ACGCGGGGGCCTGCAGCTCCGCCATGGCTCCTAAAGGCAGCTCCAAACAGCA
GTCTGAGGAGGACCTGCTCCTGCAGGATTTACGCCGAATCTCTCGGCCAAGTCTCCGCGCTCTT
CTTCGGAACGCGTTCATCGTGTCTGCCATCCCCATCTGGTTATACTGGCGAATATGGCATATGGA
TCTTATTCAGTCTGCTGTTTTGTATAGTGTGATGACCCTAGTAAGCACATATTTGGTAGCCTTTGCA
TACAAGAAATGTGAAATTTGTTCTCAAGCACAAAGTAGCACAGAAGAGGGGAGGATGCTGTTTCCAA
AGAANGGACTCGAAAAATTTCTGAGCTTGTAATANAAAAGAATGTCTCGGAAAGGAGAAAAGAT
GAAAGAAATCTTGTGGAANAANAATGAAGTTGCTGATTATGAAGCCACAACATTTTCCATCTTTTA
TAACAACACTCTGTTCCCTGGTCGNGGNCATTTGTTGCTTCTTCTCATATTGAAAAACTTCACCCCA
CAGTGAACACATATTGNCCATAAGTGCTTATCAGGACTCNCGCCTCTG

SEQ ID NO: 1998 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGCANANTCTTACTNTGTCACCCA
GGCTGGANTGCAGTGACNCNACCTTGGCTNACTACAACCTATGCCTCCCCANTTCAAGTAATCCTC
CCNCCTTAACCTCCTGANTAGCTGGGATTACAGGCNCCTGCCNCCACACCCANCTAATTTTTGGGN
TTTTANNAAAAANAGGGTTTACCNCATTNCCAGGCTGGTCTTGAACCTCTGGCCTCAAAAAACC
CACCCGCCTTAGGCNCCCANAGGGCTNGGATTACAGCATGAACCCCNCTATCTGGCCTTTTATTT
TTTAATTTTTCAAATGAGAANGTNGGGTTAGGNAATTTTTTAAAAAATCGTTTCAAGTTTCTTAACT
CCACAATTATTTNCTGANACTNTTGCAANCAACTGATCTTTATAGGNCATGCCTCAAATTCCTCAA
TTGATGTCATCTNGGCAAATCAGTCCAATGACAGCCACAAGTGGTCAAAAAGCTTTNTTACAGCCC
TNTTGGTCACTAGGCNACTACCTANGAGTCAACTGTGA

SEQ ID NO: 1999 ACGCGGGATTTCGAGTAGCGGCTCTTCCAAGCTCAAAGAAGCAGAGGCCGCTG
TTCGTTTCCTTTAGGTCTTTCCACTAAAGTCGGAGTATCTTCTTCCAAATTTACAGTCTTGGTGGC
CGTTCCAAGGAGCGCGAGGTGCGGATGGATCTTGAAGGGGACCGCAATGGAGGACCAAGAAGA
AGAACTTTTTTAACTGAACAATAAAAGTGAAAAAGATAAGAAAGGAAAAAGAAACCACTGTGAG
TGTATTTTCAATGTTTCGCTATTCAAATTGGCTTTGACAAGTTGTATATGGGGGTGGGAACTTTGGC
TTGCNTTATNCATGGGGCTGGACTTTTCTTTTATGATGCTGGGGGTTTGAAAAAATTCAGAATTT
TTTGCCAAATGCNGGAAATTTAANAAGATCTGATGTCAAACATCNCTATAGAAGTGNTATCAATG
ATACAGGGTCTTCATGAATCTGGNGAAGACATGACCANGTTTGCCNTTTATTACAGGGGAATTG
GGCTGGGGTGCTGNTGCTGTTNCTTTACAGGTTCAATTTGGTGCCCTG

SEQ ID NO: 2000 ACCAGTTTTGGTGTCAACTAGAAAAGGTCTTATTGAAGTTAAAACAGATGAG
TTTCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTCTTACTGATGGA
ACGGGAACGGTCACCCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTTGTTCTTATG
AAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGT
GGGTGTGGAGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAA
NCAGGTTGGTCACTGGAAGAAGTTGGCATATTTGAAATCAATGAANCCCTTTGCANCTGNCTTCT
GTTGCAATTAGTTAAAAGAAGTTGGATTAAACCCAAAAAAGGTCAATATTGAAGGAGGGGCTAT
AGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTGCAATTCTTGTGACCCTGTTACACACACTGGA
GAGAATGGGCAGAAGTCGTGGTGTGNAGCCCTGTGCATTGGGGGGNNGG

SEQ ID NO: 2001 ACATTATTTTACCAAACAACATTGTTTCCCACTACATCCATGGTTATGTATA
AAAAACGCCATTGTCAATTAAGATGTAAAAAATTATTTCCATAAGAGTATTAAATTCTAATCTA
TGATTCACTTAACTTCTACTTTATAAACACTAGGTAAAGTAATCTCACAAGCTGCCAAAGAACAC
ATCCCAAGCAGTAATCACAGACGATGAAGCACCTTACAGGACCCCTCCACCCTCAAACGCGCATG
TCCAGAGAAGTNTTAATGCCTTAATAGACTACTGAAGGTAACTATTTACATCATTCTAAAAAATA
TTTTNAAGCTGNATTACAGTGCTTTTAAATTCTCCTTTTAAAGGAAAAAAGGNAATAGATTGGTTC

CTTTACCGNGTTTGTAAAGGAAAAAAAAAANAATCCCTTAGTANCTAATGGNCTGCCGATTTTTTC
CCTGAATTTTTAACTCCAACAAAGCATTNTTTTTGCAAAAAGTNCTTACCCAAAGTCANGGTCT
CTGTTTTGATCTCTTTGTAAANAACCTCTCTGTTTCATNCAAT

SEQ ID NO: 2002 ACGCGGGCTTTCCAACCTTGGACGCTGCAGAATGGCTCCCGCAAAGAAGGGTG
GCGAGAAGAAAAAGGGCCGTTCTGCCATCAACGAAGTGGTAACCCGAGAATACACCATCAACATT
CACAAGCGCATCCATGGAGTGGGCTTCAAGAAGCGTGCACCTCGGGCACTCAAAGANATTCGGAA
ATTTGCCATGAAGGANATGGGAACCTCAGATGTGCGCATTGACACCAGGCTCAACAAAGCTGTCT
GGGCCAAAGGAATAAGGAATGTGCCATACCGAATCCCGTGTGCGGCTGTNCAGAAAACGTAATGA
GGATGAAGATTCACCAAATAAGCTNTATACTTTGGGTTCTATGTACCTNGGGNCGNGACCACCCT
NAGGGCG

SEQ ID NO: 2003 ACGCGGGGGGGTTCGACTGACGGTAACGGGGCAGAGAGGCTGTTCGCAGAG
TTGCGGAAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAAC
TTCAGCAAGTGACCTTTTGAAAGTCATGATCTTCTCGGAAAGGTTTTCTGTGTGAAAAATGA
ACTTTTGCCATAGTCACTCCCTTGAATTATCANAAAAAATTTCCAGCTCAACCAAGATAAAAGTAA
TTTTTCCACACTGAGAAACATTGAGGGTCTATTTGCTCTGCTAAAATTACANATGGAATTCAAGGC
AGTGCANCAAGTTTCAGCGTCTTCCATTTNTTCAAGCTCAAATTCTTTTNACTGGANTGTTTTGAN
GGGTAATGAATGAGACTATTNGGANTTTGAGGATTTTCTTTAATGATCCATCCCAAAGCCGAAANC
NTGGGAGAGCCACACTTCGATGGTGAANTTAACTTG

SEQ ID NO: 2004 ACTAAAGATCTGAATTAAGAGTTCTTTTAAACAAAGCATAATGTGGTAATTCAT
CAAAAGCAGGGTCAAAAGACAAAAGGGGCCGAGAACCTTTCAAACAGTTTCCAGTCATCTTCAGT
TCAGCGAGGGTATGAATATTTTGAACAAGGAATTTAGCAGATGGTCCGTGAGGNGAATTTGAAAG
CCACATATAGAGATCCTGTTTTTTCTTANCTTCAAAATAGATGCNTTTATTACAGTTCTTCATTTNA
CAAACCTNGTTNATCACAATAGCTTATCCTTACNGATCCATTTTANTATNTGCNTTANAATGAGG
NATNAACATTCTTNAGTCCCTGNATNAATNGGCTTGGTCTTAAAATTTATTCCTCTNGGAAANAAA
NNNGGAAAATNCCNTTCTTATTTTTTNCNCTTTCCCTTGCAAACGGGGCCTGGGGATNCGGCCCTC
TNTTTTNCNCTNACCNTNCTCTGNTGNGGGCGNGCCGCTTTAACTGGCGGCTCCGCATTATTTTGCT
CTTTTTGGCTTCTTTCGCCTGAACTNG

SEQ ID NO: 2005 ACACCTGAAATCCAGGCCAATGAAGTTCGGAAAGTGAAGAAATATGAACAG
GGATTCATCAGACCCCTGTGGTCCTCAGCCCCAAGGATCGCGTGCGGGATGTTTTTGAGGCCAAG
GCCCGGCATGGTTTTCTGCGGTATCCCAATCACAGACACAGGCCGGATGGGGAGCCGCTTGGTGGG
CATCATCTCCTCCAGGGACATTGATTTTCTCAAAGAGGAGGAACATGACTGTTTCTTGNAAGAGAT
AATGACAAAGAGGGAAGACTTGGTGGTAGCCCTGCANGCATCACACTGAAGGAGGCCAAATGAA
ATTTTGACGCGCAGNAAGAANGGAAAAGTTGCCCATTTGTTAATGAAAATGATGAGCTTGNGGCC
ATNATTGCCCGACAGACTGNAGAAAAATCGGGACTCCCACTNNCTCCAAANATTCCAAGAAAC
AANTGCTNNTNNGGGCAGCCATTGGCCTTNTGAAGAATGACAAGTATNTGCTGGACTTGCTCCCC
AAGCTTGTGNGGANTGTNNTGGTTTTGGCCTCTCCAGGAAATTCATNTT

SEQ ID NO: 2006 ACGCGGGGAGGTAACAGCTCTTGACCTGTTTCTTTCGACCTGACGTGCAGC
TGCTCCTACCCACCTCTCCTGGCTGAGCCTTGCTGATACAGCAGCCCGGAGGCACCACTTGCTTC
CCGAGTCTCACCTCCCAGGCAGCTCCTACACTCAACTGCTTCTTAGGAAAGGNCTCACCTCCAG
CCTGGAGCAGTCGGGATTACANAAAGCCCCATCCTTGGCTTANGGAGCGCCATGACGACTGAAAT
TGGNTGGTGGAAAGCTGACTTTCCTCCGAAAAAGAAATNCAACNCCCAAAGTGCTGNNTGAGATCC
CTTGACACCNATATGCCNAAACANAGGGGAGATGCANAAACCCCTGAAGGCCTGACCTTGAGG
CCCCAACAGNGACTTTAACACCCCGCCTGGAGAAGATTGTGGCAAAGAGCACAAAAGGGCANGCA
CGTCNANGNNTCCAACCTCAGGACGCTTCNAGGAGAATAAGAAAGTGAGAGCCNCTGGCAGANA
ACCCTAACCTCTTGGTGATANCGAGGAAAGACGGCNTTCAAATGAAAGGCT

SEQ ID NO: 2007 ACGCGGGGTCTCTTCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCT
CGGCATCATGGCCGCCCTCAGACCCCTTGTAAGCCCAAGATCGTCAAAAAGAGAACCAAGAAGT
TCATCCGGCACCAGTCAGACCGATATGTCAAAATTAAGCGTAACTGGCGGAAACCCANAGGCATT
GACAAACAGGGTTTCGTAAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTGGTTATGGAAGCA
ACAAANAAACAAAGCACATGCTGCGAGTGCTTCCGGAAAGTTCCTGGTCCACAACGTCAAAGGAN
CTGGGAAAGTGCTGCTGATGNTGTAAACAAATCTTACTGNGCCGAGATCGCTCACAATNTTTTCTCCA
AGAACCGCAAAGTCATNGTGGAAGAGCTGCCACTGGCATCAGAGTCNCCAACCCCAATGCCAG
GCTGCGCAGTGAAGAAAATGAGTAAGCAGCTCATGTGCACCGTTTCTGTTTAATAAATGTAAAAA
CTGCCAAAAAANAAAAANATATGTCNTGCCGGGCGGCCGTTCAAAGGCNG

SEQ ID NO: 2008 ACAAAAATTTAAAGCATTCCTTTCTTTAATTTTGTAAATCTTTACTGTGGAATA
 GCTCAGAATGTCAGTTCTGTTTTAAGTAACAGAATTGATAACTGAGCAAGGAAACGTAATTTGGAT
 TATAAAATTCCTTGCTTTAATAAAAATTCCTTAAACAGTGAAAAAAGGGGATAAGTTGTGGNGAATTGCATTA
 TCTATTTTCAGNGACTCTTANATTTTGTGTTATTTTAAAAAGGGGATAAGTTGTGGNGAATTGCATTA
 GGATTACTAAAATAAAAGCATTAAAGAACTCCCCAAAACCTCCAAATACATCTGGAGTCATTCTTTC
 CTAATAGGGACAATATTTTATTACCAAAAATGGTAGAAAAGGGTTAGAAAGGGCCTAAGTCTCAGGA
 TAAAGGATAGTTTATTGCATTTAACTAATTCACATTTCAGAAAAATGTTTTCAAATTGATCTTATTT
 TTCTTATTTTGCCATGGATTGATAAACTTTATCACAAATTANAACAGAGAATTAAGGAGGTCTNT
 GTTTAAATCCAGACCCGTGNTGCTNTTTACATCCCCTA

SEQ ID NO: 2009 ACGCGGGGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAA
 CACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTTTCAGTTTAGCTACGGCAATCCCGAAGTTTCCT
 GAAGATGTCCTTGATGTGCAGCTGGCATTCTTCGACTTCTCTCCAGCCGAGCTTCCCGAACATC
 ACATATCGCTGCAAAAATAGCATTGCATACATGGATCAGGCCAGTGGAAATGTAAAGAAGGCCCT
 GAAGCTGATGGGGTCAAATGAAGGTGAATTCAAGGCTGAAGGAAATANCAAAATCCCTCACAGTT
 CTGGAGGATGGTTGCCGAACACACTGGGGAATGNANCAACAGCTTTGAATATCGAACCACAAGG
 CTGGANACTACTATGGANATTTGACCTATACTTGGGGGTCTGATAAAAAATGGGNGACGTGGCC
 TGTGTTTTNTAACAANTTTTTTGAATCCACCAAAAATTACTCCTNGGGTCNTTTTTTANTTGNANC
 AGNAGGGGNGCNAATANTTTTTTTTTTATTNGGAANNANTTNTAAAAAAAATTTTTTTTTTN

SEQ ID NO: 2010 CGCGGGGAGTTCGTCGAGCCGGGATTGTTGGGTGCGGGTCTTGTTTGTGGAT
 CGCTGTGATCGACACTTGACAATGCAGATCTTCNTGAANACTNTGACTGGTAAGACCATCACCTC
 TAGGTTGAGCCAGTGACACCATCGAAAATGTCAAGGCANAGATTCAAGATNAGGAANGCATCCC
 TCTGACCAGCANAGGCTNATCTTTGCTGGAANANANTTGAAGATGGGCGCACCTTTTTTGACTT
 NAAACATCCATGAAATATTCACCTTNACNTGNCTCCGNTAAAAAGGTANGANGNAAATATTTTNA
 ANACACTTACTGGCAANACNNTATCCTTNANGGGGACCTATNANATCATTTATGACGTAA

SEQ ID NO: 2011 ACTACCACCTTTTATGCTAGTTGGCATCTGCCTTTCTATACAAAGCTACTATTA
 ATCGACATTGACCTATTTCCAGAAATACAATTTTAGATATCATGCAAATTCATGACCAGTAAAGG
 CTGCTGCTACAATGTCCTAACTGAAAGATGATCATTTGTAGTTGCCTTAAAAATAATGAATACATTT
 CCAAAATGGTCTCTAACATTTCCCTTACAGAACTACTTCTTACTTCTTTGCCCTGCCCTCTCCCAAAA
 AACTACTTCTTTTTTCAAAGAAAGTCAAGCATATCTCCATTGNCCTAAGTCCAGNGGTTCTTTTTT
 TTTTTTTTTGAGACGGAGTCTCACTCTGTCAACCCAGCTGGACTGCAATGACGCGATCTTGGTCACT
 TGCAACCTCCGCATCCGGGGTTCAAGCCATTCTNCTGCCAGCCTNCCAAGTAACTGGGATTACAG
 GCATGTGTCACCATGCCACTAATTTTTTTGTATTTTAAAGTANANATGGGGGGGTTACCATATG
 GCCAGTCTGGGNTTGAACCTCTGACCTTNGATCCACTCC

SEQ ID NO: 2012 ACCACTGAAACCCCTGACCCAGAAAAGTGGCTTGCTTGGACACCCAGCTGCCT
 TTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATAAAAGTAATGAC
 TTCATAGAAATGGCATTATAATTTTAAAGTTGATACTCTACAGGTAGCTATGATATAATTAGTTT
 AATAAAACATGTGCAACCATGGTATACACAACAAAATACATTTCTTTGGTGATTGAATTAAGGC
 CGTATTTACAATGACTTAATATAAGACTGACTTTTATCCTGCTTCATAACTTGTATGGAGAACTCAC
 CAAGAAAGAATTCAATACTGTGAAATATGCAGCAAAGAAGATTGTCTTTACTAGGCTGTGTTTCTA
 ACTNTGATTTTCAAGCCAGTAGATTGATTAAAGAAAAAATGGGCCTTACTTTGCTTTTATTTTGCN
 GCTAGGCTTAACAAATACCACNAAACAATGNCTTGTTTCACATATNTGNAANAAATNTTACCCTA
 AATAGAAAAGGACTAAAAAAGGGGNTTAGNGAAAAATNNCTNCAAAAAAAAAAAAAAAAAAAAA
 ATCTGNGCCACAAAGGGAT

SEQ ID NO: 2013 ACTTTTTTTTTTTTTTTTTTTTTTTCGATCTAAAAANATTTTATTTTCTTTATGCA
 GGTAGGCAGTTANAAATTTCAAAGTCTAACAATGACATTCTTGAAGNGGGCNCAGCCTTTTAAAC
 TCAGGCTATGNTACAGTAACCTTGNNGAACTGGTTCAGCCANATCTTCACTTTTATGAAAGCACA
 GGGTCTGTCTTTTCTTTTCCAAAGGACTCCTNTCATATTCATCGCCAGTTTCAATTTTATATGNAT
 ATATATATNCTACTTCCAACACCCGATTCATCCTGGTTCAATCAAAGCCTGNTTTTNGGCCAACAA
 TAANCTNNTCAGGAAATCGAAGGTGTNAATGNTGCCGTGGCTCTCTTGAAGNCAGGGGNNACTC
 CTTTCNAAAATCCATT

SEQ ID NO: 2014 ACTGCAATGTATAAACTTTGGAGGATGAAGGACAGGAGACTTAGAACGTGCA
 CGACGCTGAGTTCTCACTGCTCCTCGTGAAGACTTCCTTGTAGACCCGTGCCAACTGTCTTTAGAT
 GCACATGTGGTTTTAGGTTTGGTATCATCTGTTGCTGTTCTGACTGGTGCTCTGACACCTGTGCCTT
 CTCCAACAGACAGAGATGCTACAGACCCTGATGCATCCNCTCTTANTTTTTTGAAGCAGACTGTN
 GACTCTCCTCCTCTCCATCCTTGGCTTCGGATATCATTTGTGCANGTTTINACGCTATTATCNATGTC
 TTNNTNANCTCNTNNTNAAAGGNGNCACTNNGTGATGCGGGATNNTCGTATATAGTNTTTTTTCCAA

ATTCNGAGCCC

SEQ ID NO: 2015 ACTTTTCAATCCAAGAAAAAATAAACCGAGACATGGTCATGAGTTCAG
GATTATATATATTACAATTTGCCTTGTTATAATACATTTGTGGCTTTATGATAAAAAATACTCAGG
ACATATGGAATTCAGCTGATTGCGTAACTGTCACAAGAAAAAAGCATTAAATGCATTTCTGA
AATAAGTATTTTCATTAATTTTCAAGATCTCAAAACAGCATTAGACCTTGCTTGTTAAAAAAT
TTAGTTCAACACTAAGCTAGCTAAATAACCTTCTTGAAAGGTTTAAACACAATTGATATAGAAAA
GCTTTCCCTCTAATCTCAACTTTACATAAATGGACCAGGTGAGGAAAAAAGGTAACATTTCTTTAG
CACATATTGGCTAATCATCACCCCTAACTAGAAATNCATTATGNCCTTAAAGAACGGGAAANTCA
AAATTACGATTCATAACCAAAGAATCATTTAGGGTCAGTANGAAATNTTTGAACCTTAAACCTTAC
NTACTAAAAANATNTNTNTNGAGAAAAGNCCCAANAATTTNTNTGTGTTTTCTTTNAAAAA
AAAGG

SEQ ID NO: 2016 ACCAGAAGTATAAGTTTATGGAACCTCAACCTTGCTCAAAAGAAAAAGAGGCT
AAAAAGGTCAGATTTCCTGAAATTAACAGACTTTGGAATTTCTAAAATACATGCAGAAGAAAAAG
AGTCCACCAACTCAATGGAGACCAGATTCTTGCTGGCAGATAACCTGTATTGCAAAGCTTCAGTTC
CTCCTACCGATAAAGTGTGTCTGTGGTTGGGGGCTAATGTAATGCTTGAATATGATATTGATGAAG
CTCAGGCATTGTTGGAAGAATTTATCGCTGCCCAAAGAATCTTGATCCCCGGAGGAAGACCTT
GCTTTCTTCGAGATCAATTTACTACCCAGAAGTCATATGGCCAGGGTTTATAATTGGGATGTAAAA
AGAAGAACAGGATGCTCTNCAAGACAAAGCATATGTGGCAATAAAATGNGGTAAATTTCCAACAT
GTATCTAAATNCCTTATCTTNAGGTGGCTACTTGATGTTTACACAAAATTAACAAAAAACCTTTT
TTTTAACAAATGTTNAAATTTG

SEQ ID NO: 2017 CTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGGATGAGGA
GACTGGCAACCTGAAAAAGGCTGTCTTCTACAGGGCTCTAATGATGTTGAACTTGTTGCTGAGGG
CAACAGCAGGTTCACTTACACTGTTCTGTAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAA
AGACAATCATTGAATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGG
ACATCGGTGGTGCTGACCAGGAATCTTTGTGGACATTGCCAGTCTGTTTCAAATAAATGAACTC
AATCTAAATTAAGAAAGAAATTTGAAACTTCTCTTGCCATTCTTCTCTCTTTTACTGAAA
CTGATCCTTCATTTTCTGACATTACTTGCTTAATTGGGGCAAAGAGAAAAAGGATGACAGAG
NTTGTGCATNCAGTTCATTACTCCTTCCCCGTCCCAAAATTNAATTTTAAACTTANCTTTATGAA
ATGTAACCTTNAANAACCNANNAATTGTNAAATNACCCNNNTTTNAAAAAAAAAAAAAAAAAN
TCCCGCG

SEQ ID NO: 2018 ACAAGCCTCACCAAGGGCAACCCAGAAAAAGTGAATGAGTTTGTCTTCTCCA
ATCATGACTTCCTCGATAAGTTTGCAACTTCCAAGCTTCACCAGTTCTGGGTGATCAAAGGTAGAG
GCAATTTACCACTGTGACAAGAGCTAGGCGTTCCACACCTGCAAAATCTGCATGCTCAATAGCC
ATGACACCAGCAGCACCAAGAGCTGTTTCAAGGATAATTATAAATTAATTGCCTGTTAATAAGCA
ATTTATTCATGCTTAAGAATACGTTCAACTTTCTCCTTCAATTTTCCCTTTCCGCATGTTCTATTT
CTGCAACCTTTGCTGTAGAGTCAACTCTTACCCGGGACCAAAATATCTTATTTGTCTGTATCCATACC
AGTATTTGCAATAAGAATTTAGCATTTTCAATCCNTTTGGTGTTTACTCAATTTTTATCCAAAGGAG
CCTCTCTAATANGGATTGCAACTCCTCNGTTTTNTATATAATGCTCAGTTGCANACCTTATTTGGAA
TGTTTAANTA

SEQ ID NO: 2019 ACGCGGGGGCAAACCAGCTCTAGGCGGCTCTGGGTAAAGTTGTCGTTCTGTGG
GCTGCGGAACGCANACTTCGGCTGGACTTGCCGTGCGGTGACACCTGCTCCCCCTCTGAGAGCTTCAG
GTTCTCCGGCCTGCCTTCACTGGTTTGTGTCCAGAGCCGACTGATTCTCTCAATTTGCGATCTTCA
GCCTGTTAAACAAGAAAACGAAAAACCCCTTCCAGAAAACATGGATGCATTTGAAAAAGTGAGA
ACAAAATTAGAAACACAGCCACAAGAAGATATGAAATCATCAATGTGGAAGTTAAACATGGTG
GTTTTGTTTATTACCAAGAAGGTTGTGCTNGGTGCTTCCAAAGATGAAGANGCANACAATGTTAA
TTATTAAGCTTTATTNATTTNGAGGACTTAAGTAACCAGCCCTTATTNNTTNATCANAGTTGCTCN
AATGAAAATTTTGCTNCCANNAANACTTAAATCTGAACNTACT

SEQ ID NO: 2020 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGTTCAAGTTTAATACAACTAC
AAAAANATTAGGGGTNGCTNTACTAATACATACATAACAAACAGTAGCCTGCCACAACGCCAACT
CAGGCCNTTCTACCAAAGGAANAAAGGNTGGTCTNTCCACCCCTGTAGGAAAGGCCTGCCTTG
TAAACACCAACAATTCGGCTGAATCTGAAAGTCTNGNGTTTTACTAANGGAAAAAATNCANAA
NAGGTTTNGTTNTCATGGNTGCCACCGAAGCCTGCACTAAAACAGCCAGCGCTCACTTNTGCTG
NAAAAATTTCTGTNTTTGGGACATCAGGCTTGAGGGTTCACTGCAGGTTCCAGCCAGCTNGGCAC
ACTTCCCTTTTGCAATAAACTGAAGGCNTACTAGTTTAAAGTTTTCCANGCGGCCACAGGAGG
CTTTCAGNGNTTGCCNAAAAACCTTNTNTNAAAGAAAAAAGGCCTNAAAAAAGCTT

SEQ ID NO: 2021 ACGAGAAAAACGATTGTGGAAATTGGCTGAAAGATGCACGTGACTGGACAATT
TCCAGAAACAGATACTGGGGCACCCCCATCCCCTGTGGGTCAGCGATGACTTTGAGGAGGTGGT
ATGCATTGGGTCAGTGGCGGAACCTGAAGAACTGTCAGGAGCAAAGATCTCAGATCTCCACAGAG
AGAGTGTGACCACCTGACCATTCCCTCACGCTGTGGGAAGGGATCCCTGCACCGCATCTCTGAAG
TGTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTCAATTACCCGTTTGA AAAACA
AGAGGGAGTTTGAGGATGCTTTTCTTGCAATTCATTGCCGAGGCATACCAAACACAGGATGG
TTTTACCTGCTGGTGCTGCNCGGTNTCTTGNCACCGCTTAAGACGTAATTGNANTGGGNTTNNC
TGCAANGATGGCAAAANTGNNCAACCGGAAAGATTTTCNATCATTCTCTCAAATTTGGGGTNTT

SEQ ID NO: 2022 ACTTTGCTACGGCAGCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCC
CTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCAGGATTTTAAGCTTGACTTTGGCAATTTCCAAAGG
CAAAACAAGTCAAACCTTGGCATGGAGGGATAGCCACCATTTTTTCAGAGTCCTGGCGATGAAGTGT
GGGGAGTAGTATGAAAATGAACAAAAGCAATTTAAATTCTCTGGATGAGCAAGAAGGGGTAA
AAGTGGAATGTATGTTGTAATAGAAGTTAAAGTTGCAACTCAAGAAGGAAAAGNANTAACCTGTC
GAANTTATCTGATGACAAATTCNAAAGTGTCTCCCATCCNACAGTATAAAAANGATTATTNNATGG
GTGCAAAAGAAATGTTTTCCGTTGAGTTGCAAAATNAGTTNAANCATANACCAATTGACTTTCTGGT
NGGNTTANAANAATTNANANTTATNANAGGGGANCAANNTTTAAANNNACAATTTTTTANGGNT
TTTTCTNNATAATTTTTAAACTGAGAAGNGCGGGGGTTTTTA

SEQ ID NO: 2023 ACGCGGGAGTCAGACCCAGTCAGGACACAGCATGGACATGAGGGTCCCCGC
TCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCCCAGGTGCCAAATGTGACATCCAGATGACCCAGTC
TCCTTCCACCCTGTCTGCATCTCTAGGAGACAGAGTCACCATCACTTGCCGGGCCAGTCAGGGTCT
TAGTAGTTGGATGGCCTGGTATCAACACAAATCGGGGAAAGCCCCCTAAACTCCTGATCTATAAGA
CGTCTACCTTAGAAAGTGGGGTCCCCCTCAAGGTTACGCGGCAGTGGATCTGGGACAGTATTCACTC
TCACCATCAATAACCTGCAGCCTGATGATTGAACTATTACTGCAACAATTAATACTTCCCTTGGC
CTGATTACTTTGGCCCTGGGACCAGAGTGGATGTAAGCNACTTGNGCTGACATCTNNTTATCTTC
CCCCTTTGTNANCACTGAATCTGGAACGTGTTTNTGNNGNCTGTTAATATTTNTCAAANNGCCAA
GNCTTGGCCGACNCCTAAGGNANTNAAANNTTGGGCNGTATNNTGANCCANTTGGANANCTNGN
GGANATNGAAAAGNTTT

SEQ ID NO: 2024 ACATGCAAAATCACTGGCAAAGGCTGTAAAGAGATTGTAGGCTGGGGATTTC
CACTAGGCACCTGAGTAGTAGCAACTACAGTAGCTGTATTGGGTGCAGGAAGAACTGACGTTGCT
GTGAGGGAACCCGAAGTCACTGGAGTCTGCAATTTAGGTTGACTACTGACAACTGCTGGAGGAGT
GACAAGATTGGTTGAAGATACTGTATTACAGGAGTTTGAAGGATGGTGGTGCCTCTCGCTTAC
ATTTCTTTTGGAGTCCAGCATCTGTCTCACTGTGCCTGCATTTCTGTAAGACATGTTATTATTGCTG
TTGACATCATTTACAGTTTTTCTGGTGATCTGGTGGGTTGGGTGGATGTGTCATGCTTTTCTTAANAC
TTCTTTGGCTGNTTNAAGCGTTTGGTAAAGCTGCTATCTTGCTGTANTTAAGGANACTGTTATGCTTT
GNTCATNAATTTTNCNCTCGGTTTTATTTTGCAAGNTT

SEQ ID NO: 2025 ACAAGACATTTCAATTTCTCTTAATGTTACAACAAGCTTGTTGCCAGGGCTGA
TCTTGAACCTCCTGGCCTCAAACGATCCTCCCAGCTCAGTCTCACAAAGTGTTGGGATGTCTGGCCA
ACTAATGACTATCTTAACCTCTGTGTTTCAATGTTTATGCCTTCTTTTATCTTGACTGATTGTATGAC
TATGTCCTTCTAGAACAATGTTGAACAGAAATGGTGAGAGCAGACATCCTTGCTTTAATATTTACC
ATTATATATGATGTTAGGTATAGATTTTTCTCACAGATGCCTTTTATCAGATTGAGGAATTTATATT
CCTACTTGGCCGAAAGNTTTTGTAGTATGAGGGGGTGCTGNATTTTGTCAAACACTTTTCGGTAAT
AATTGANATGATTGTTCTGAGCATCGAANGGGGATTCTCTTATTCTGTGCGANGT

SEQ ID NO: 2026 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
AGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGA
TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAAACTTGCTGCTGATGAAGATGATGAC
GATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTGATGATGAGGAAGCTGA
AGAAAAAGCGCCAGTGAAGAAATCTATTCAAATCTCCACCAAAAATTNNCAAANTCAATCAGAAT
GGAAGAGACTCAAAACCATATCTACNAAATCAAAGGACAANATCCTTCANNAACGGANAANTCT
AAAAACCAAGGCNTTTTGTNAAANNATAAGCAANTCCGCNANTTNAAAAGGGGTTTTTCCAANG
NANGCAATTTTNATTTTTTAAAAATTTCCGT

SEQ ID NO: 2027 ACTCTTGATGAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTC
ACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGG
AAAAGCCATCAAGGTGGAACAAGCCACCAAAACCATCTTTGAAAGTGTTAGACAGCTGGACCGCCTC
CACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTTCTTAGAGGTGGAAAGGAGGAGGAAGTGGGAAGCA
CAGGGGACCTCCCTCAGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTAACATGAG

TTCTTCAGGGGACCCCTCCCAGTAAAAAGAGGACCCCAACCAAGAAGCGGGGGGTCTTCTCTAAGA
GATCTGCNCTTAGGCCNTTCGCAGTACAGTGAATGGGAGGAAACTCTTTTCACGTGGAGAATATTT
TNGAGNTCACNTGAGGGAACCGTGNCNTTGNAAAAATNTTTNNNCCAAAAATGTTGTTTTTATAA
GAAGTTTTTCANC

SEQ ID NO: 2028 ACACATAAATCACCTGGAACCTTGTTAAAAATGCAGATCCTGACTCAGGAGGT
CTGAGTTAGAGCCCAGGATTTTCATATTTCTAGCCAGCTCCATGATGAGCTGCTGGTCCGCAGATCA
CGCTTGCAGGTTTTGACCAGAGTCAGTGTGGTTAGAGTAAGAGGATGAGGCAGACATCTGGGAA
AAGTCCAGCTGGGGCAAGCATTGAAGTCTGCCTTCTACCAGGTCAAAATCAAGGCAACGACCT
TCCATAGATAACTATCAAAGCTTGAGGGGGTGCCTTGAACCCAACTCCTAAATNCCANNACCTG
CCCACCTCTTGTGTCTCCTGCTAACAAACATTCCACACTCTTGCAATTTGTNAAGTAACCTTGCTTA
CCAGCTTCTGGTTAATAAAGATGGNTAGAGNGACTCCTTTAAGCAGTACTAGGCNCTCAAAAGA
ACTCAGGTTANTCTGGTCTNAATNGCCCANCTAGNTGCCCATNTATTGCGAATTTTAGGCCTCA
AACATTTNCTAGCTAAAANNACAGGGGCTAAAGTCNCCCTT

SEQ ID NO: 2029 ACGCGGGGACACTGGACTCCCGTGAGCTGGAAGGAACAGATTTAATATCTAG
GGGCTGGGTATCCCCACATCACTCATTGTTGGGGGGTCAAGGGACCCGGGCAATATAGTATTCTGCTC
AGTGTCTGGAGATCATCTACCCAGGCTGGGGCTTCTGGGACAGGCGAGGACCCACGGACCCCTGGA
AGAACTGGTCCAGGGGACTGAACTCCCGGCATCTTTACAGAGCAGAGCATGATCACATTCCTGCC
GCTGCTGCTGGGGCTCAGCCTGGGCTGCACAGGACAGGTGGCTTCGTGGCCATGTGGAAAGCACC
TGCTGTNGGATGATGCTGGGACTCCAAAGGATTTACATATGCATNTCTCAANAANGATCTGTTG
ACTGCTGGGATCAAAGGAGAATAANATGGCCCTTGCGATTGTTGGGAGNTAAT

SEQ ID NO: 2030 ACTGTGCAGGCAGATTCACAGGGTGGTGGTAAAGCATCCACAATGGCTCTGG
CAGCATCAGGATCACACTTGAAGGGGCTCTCAGACAAAGTTGTATTCATGCAACTGATTCCTTTTC
CATTCGTTTTCTTAGTCACTAATGCTTTCCAATGGTCATGAGTGCTTTAATAATATCAATGGCAAA
AGTCCTTATCTTTAAATTCTGCATTAAACGCAAACTCATTTCCTGGTTTTCCATCAGGAACCTTATA
CCTTCTAAACCAGTCCACAGTAGCTTNTAAGTAGCCAGGTTTCAGCCGTTTGACATCATTGATATC
ATTATAATTGGCTGCATCAGGATCATCCCATTAATGGCAATGACTTTCNAGCGGGTTCCTTTNNNA
ATCATAGCCAAATGTCNTAGAACTTGCNCGCAATTATTTCACCTCTCACAACACTTGNNTCAATTCAC
ACNATTANTTGGTNTTGTACCNCAACCTNNNTTATATTNTNCTGGGTCTCNANNTTNNGGGATG
GACCNNTCNAATTATCTTTNNGGACAATTCCAAANACNAANTTCTTTTANTNTNTTAAAGGTAA
AGGNCCTTAACA

SEQ ID NO: 2031 GGCCGAGGTACGCGGGAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAG
GACAGTATTCCAGTTACTGAACTTTTCAGCAAGTGGACCTTTTGAAAGTCATGATCTTCTTCGGAAA
GGTTTTTCTTGTGTGAAAAATGAATTTTGCCTAGTCATCCCTTGAATTATCANAAAAAATTTCC
AGCTCAACCAAGATAAAATGAATTTTCCACACTGAGAAACATTGAGGGTCTATTTGCTCCGCTAN
AATTACANGATGGAATTCAAGGCAGTGCAGCNGGTTGAGCGTCTTCCATTTCTTCAAGCTCAATC
TTTCACTGGATGTTTTGAGGGGAATGATGAGACTATTGGATTGAGGATTTTCTAATGANCATCNAA
AGNNAANNNTGGGANNNCCNATTTGTGGTGNAATAAACTGGTTACTGTATAGGNGCTGA

SEQ ID NO: 2032 ACGGCTCCATGGGATTAAAGGAAGCAATGACATCCTGATCTGTTCCCTTGATCT
TTGGGCATTGGAGTTGGCGAGAGGTGTCAGAACAAAGAGAACATCTTACTGAAAACAAGTTCATA
AGATGAGAAAAATCTACGAGCTTCTTATTTACAACACTGCTGCCCTTTTCTCCAGACTCTGAC
ATGGATGTTTCATGCAACTTAAGTGTGTTGTTCTGAACTTTCTGTAATGTTTCATTTTTTAAATCTG
CAAATAANAAGTATAACGCTCTTTAAAGATTGTCATCAACNCCATANTNTGTAATNTCCAGGAG
CACTGCCTGAAATTTTANTTNNNTNAGGGAGTACATTGGTGGTGGGGGAAATTGTTACTACCTTN
ATTTTCCNGNNGCAATGGTTCCTCTTTNANAGNTTGTATTANAANAAGCCCTCNTNTTNNGGCC
TTNNTTATTANGCCTAAATATATAATGAANAATA

SEQ ID NO: 2033 GCCGTAGGTCCGGCCGGANGTACTTTTTTTTTTTTTTTTTTTTGTAAAACAAGC
AAATTTTATTAAAGGAAAATTTGCAAGGTTTAAAGTTTGCAGGTNAAATTTGTAGGTNAAAAGGT
TNACTTTTACCANTCTNTTCTGGCATGCTTTTANTGATGTCANAGTCACTTGNATCAAAANNTANC
CAGGGTGCACACTCTGTAGTATATCCNCATACTGTCCANTTCAATATNANTGCNACTGNAATNA
TTGGACACTTGTTTANCAAAACATAGCNTAGGANCT

SEQ ID NO: 2034 CCCTTAGCGTGGCGCGGCCGAGGTACAGATCCGAAGTTTCAAGGGCAAACGT
GTGAGATGTGTCAANACCTGCCTTGGTGTCTGTGCTGAGCATAAAAAATGTGTTCAAGNCNAAGC
CTTCAATTAAGGNAAAAAGAAAGACCCCTGCCCCNGGAATNGTCCTTATTTTAAACATTCCAAGGT
AGAAAGTCCGGACAAATTGCCCANCCGGTCCAACCTGATCCTGTGTCCCATTGTAAGGANAAGG
ATGTTGNCACACTGTTGGTCTNTTTACTTNTTCAAGTATTGGAAACACCGAGGTGATGTTTCATGTTG

NGGAAAATCCAAAGGGCCCCCTGGCCAAACNTATTCCAATTGNACCTGGTGNGGTNGCTGNAATTG
TTCTTATGGCCTTGCTACTGCTGATATGGANNCTTTAAATGATATTCCATGACAAAGGGGATTTT
GTTAANTTGAAAAAAAAAAAAAAAAAAAAAAAAA

SEQ ID NO: 2035 ACCTCTCCCAAGAAGTTCATTATATATCAGAAATTAAATGAAATATAAGCA
TATATTGCATGCTGCATATTTCTATCGTTCAAACCAGCCAACCAACAACTAAAAGGAATACTCTC
CAAAACACTGAGTATTAAGTAATTTTCATCTGCCTTTTTTGATCCTACAATCATTTTTCAAATTTTAG
GTGTTTTTCTTTAAATTATTCATCAAACACTACATATAACAAGCTATCCAANAATGCAAACNAGGG
GACATTTGAGATGGGGTAGTGGGCTGCACATAAGTANTTCCAAGAACCCTCATTCT

SEQ ID NO: 2036 ACGCGGGGCTCTTCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
GAACCCCATGCGGGAACCTTCGCATCCGCAAACCTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAG
ACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCACAGGGCANACCCCTGTGTTTTCCAAA
GCTAGATACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGATTGCTGTCCACTGCACAGTT
CGAGGGGCCAAGGCAGAAGAAATCTTGAGAAAGGGTCTAANGGTGCGGGGAGTATGAATTAAGA
AAAAACAACCTTCTCAGATACTGGAACTTTGNTTTTGGATCCAGGAACACATGGTCTGGGTATAA
ATTGACCCAAGCNTNGTNTNTNGGCTGGACTTTTTTTGGTGTGGTANGGCNAGNTNACNTCNAGA
NAAAAACNCAGANAGGTTGTTGGGGCCAACCAATANNAANAGAGCATGCCTGTCCNCANAA
TTTATGGATNTTCTTCTG

SEQ ID NO: 2037 ACCAAAGAACAGATAAAAGGAGGAACAGGAGACGAAAAGAAAGCGAAAGA
GAAAATTGAAAAGAAAGGAGAGAAGAAGGAGAAAAAACAGCAATCAATAGCTGGAAGTGCCGA
CTCTAAGCCAATAGATGTTTCCCGTCTGGATCTTCGAATTGGTTGCATCATAACTGCTAGAAAACA
CCCTGATGCAGATTCTTTGTATGTGGAAGAAGTTNATGTGCGGAGAAATANCCCCAAGGACAGTTG
TCAGTGGCNTGTTGAATNATNTTCTGTTGAACNGNAC

SEQ ID NO: 2038 ACCTGGAGTGATGGATGGCGTTCCTCGGCTAATAACTATCAGGGTGGATTT
AGAACAACACTCATGGCTAAGGATCTGGGATTGGCACAAGACTCTGCTACCAGCACAAAGAGCCC
AATCCTTCTTGGCAGTCTGGCCCATCAGATCTACAGGATGATGTGTGCAAAGGGCTACTCAAAGA
AAGACTTCTCATCCGTGTTCCAGTTCCCTACGAGAGGAGGAGACCTTCTGAGTGTGCCCTTTGGCCA
CGGACACTGTTGGGAACCAAACCTCTGCTTGAGCCTCCTTTAGCTCACTCCACAAGTAAATGGATT
AAATCAAAGTCACCTATCTGCTTTTGATTGCTAGGNCACAGTAATCCCTAGGATTTNACCNITTATC
TTTTTGNTTTAACAAANTTTNTCCGAATTTTTTTNTGAANCACTGATAGTTTTGCTACTACTTATTG
ANCTTTTAAANGTTGNNCCCAGCTCTCACTAANATGAATATTNAATCNGNTTNTCTGTTNNTTTAA
ANAAACAATTTTGNACNGGTGAACCCTTTAAAGAAAAAGGATTNTGGGAGAAAAATTAAAGN
AACCCGATT

SEQ ID NO: 2039 ACCAAAGAACAGATAAAAGGAGGAACAGGAGACGAAAAGAAAGCGAAAGA
GAAAATTGAAAAGAAAGGAGAGAAGAAGGAGAAAAAACAGCAATCAATAGCTGGAAGTGCCGA
CTCTAAGCCAATAGATGTTTCCCGTCTGGATCTTCGAATTGGTTGCATCATAACTGCTAGAAAACA
CCCTGATGCAGATTCTTTGTATGTGGAAGAAGTNGATGTCGGAGAAATAGCCCCAAGGCAGTTGT
CAGTNGCCTNGTGAATCATGTTCTNTTTGAACANATGCAAAATCGGTTGGGNNTTNTCTNGTANC
TGAANCTGCAA

SEQ ID NO: 2040 CCCTTAGCCGTGGCGCGGCCGAGGTGGACCTTCAGGGGATCAAAGCAAAGTT
CCAAGAGAAGTATCAGAAGTCTCTCTGACATGGTTCGCTCAGATACCTCCGGGGACTTCCGGAA
ACTGCTAGTAAGCCCTCTTGCACTGAGCCAAGCCAGGGCAATAGGAACACAGGGTGGAAACCACCT
TTGTCAAGAGCACATTCCAAATCAAACCTTGCAATGAGACTCCCGCACGAAAACCCTTAAGAGTC
CCGATTACTTTCTTGCGAGCTTAAGTGGCGCAGCCAGGCCAAGCTGTGTAAGTTAAGGGCAGTA
ACGTTAAAGATGCGTGGNCAGGGCACCTTGAACCTCTGCTTAGCAAGCATCTAGGCTGCCTTTTAC
TTTCTTTTAGCATGGTAACTGGATGTTTCTAACACTAATGAAATCAGCAGTTGATGAAAACTAT
GCATTTNATGGGCACAATTTAGAAG

SEQ ID NO: 2041 ACGCGGGCGCTGTGGAAATTGGGTCTTGGGCTGGGTGGCATCTGGCAGTCAT
GGGTAACACTTGCTTTTCCAGTTAATGTGGCCATGTGATTCCAAGTGTCATGTTGCTTTGTGGCAA
GATTGTTGTGTGACTTGTTTTTTGTTTTTTGTTTTTTTAAAGGAACTATTTGTGGGCTATA
GGAAACTTTCTGATGCCTCCGGATTGTGTTAGTAGTAGCCATCAGGAGGGTCTCCAATAAAACAC
TTGTTCTCTGTCTCCTTTCCCTCTCATTGTTTANCATTTCTTGTCAGTTGCCANCTTGGANTT
GCTGCACGCACATGTGTCTTTGTGGTTATAGCTAGAAGGACAGGAGTCTCTCTGATGCGTGATA
ACTTAAGCTTGGGGGAGAAAGTCTTTTCCACTGCCTAACTAAACAANTCTGGGGANANCATGGGA
TCATTTCTATGTGTGGGGGTAANCTGGCAGTAANATTGAAACTTAATTTAAATTTCCCTTGGAAA
TTCCTTAATGTTATTACCTCTAACNAGNGNTTGAANTCCCATCCAAATTTGGAAATTTGANTTC

TTCTTT

SEQ ID NO: 2042 ACGCGGGACTACTGGAANTGCACAACTGGCCACTGACAAAAATGACCCCC
ATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGT
GACCACGTGACCAACTTGCACAAGATGGGAGCGCCGAATCTGGCTTGGCGGAATATCTCTTTGA
CAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCCATAGCCGTG
GGGTGACTTCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTCTTTACCTTTTCTATAAGTT
GTACC

SEQ ID NO: 2043 ACGCGGGGAGTCCGCTGGTCCCGAGCACGAGCTGTGAGGGGATTCACCTGTG
TGCGGAACTCCTCGGAACCATGGCGTCCCTTTCCCTTGCACCTGTTAACATCTTTAAGGCAGGAGC
TGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTTCTTTATTGGTGCCATCGCCATTGGAGACTT
GGTAAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATTTCTTAAGCAGTGGACGAGATGCCT
CTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTTGACAAATCCAGCAGCTT
AAAGTTTTAATTGATATGTCAAGGGTTCAAAATGATGAAATTGGTGATGGCACTACCTNTGGTACC
GTTTAGCNCNANAATTATTAAGGGAAGCCAAATNTTTAATTGC

SEQ ID NO: 2044 GCGTGCGCGCGCCGAGGTACCCCCTTTCCATAGAAGGGGGAAGCCCTCTTTC
TTGTCTGCCAACCCGATCACGACCACTTGAGTAGAGATCACTTCGGCTGCTTGAGTAACTGTCTCG
ACTTCCACCATATCCGTCACGTGAGCTGCTGTAATCATCATAGCGACTGCTTCCACCATAAGATGG
CGGGGGCCCTCGTGTAGGTGGAGCACTACGTGAGTTACCATAACTCTCATATGAATCTCTGTAGGA
ACCTCCACTTGGATGATCTGAATAGTCACGATCACGACCATATCCATCTCTATCGCTATATCCTCTT
GATGGATAGGCATCACGTGAAGTGAATGACCATAATCACGGTAAGGATAATCTCGTGGNGGGNG
GTGCATAATCTCTAGTATCACNAGAACTTGGGTAATCTCTGCTTGAATAGCTGNCCTTTAANAAAA
TACCCATCNTCTNTTTGGGGACAAATAAACTTCTNTACNAAAGGNCAGCGTTNCNTTCAANGGG
GACCTCCATAACNNTCTNTTNCACGTGATACAGNGAGCTTTTCTCCATTCCANTGGTTC

SEQ ID NO: 2045 ACAGAGTGACATCGGCAGTTGCAGCAGCAGCAGTAGCGGCAGGAGGAGGGC
TGTATACTGGCGCCTGGCTGGGATATGTGTTTCTTGAACGGAAGTACCATTGTATTTGGGTAAAG
CGGCTGAGTCTGCTGACTAGGAAGGGCTGGGTTTGGCGATGGTGGGACCACCTGCCTGCTGANAGA
AAACAGCTGCTCCGGGGGAAAACCTGTAGCTTGGAGGTGGCTCATCTGCGCTTCCCTGCAACCA
GGTAGGCACCACTTGGAGGAGGCCTGCATCACCTGAGAACCAAAAACACCAGATGACTGCATATA
ATATGGCTGATTCTTGTAACTTTGCATACATGGAATACATCGGATCTTCGTCATTAAGTTGGTATAT
AAAGGAAAGGGCCTCCATCACTTTACATTAAGTTCTGANAGTTCTGAATGTTTTCTATCAATATC
TTCCANCTTTTCATCAATNANAGGTNCCATNTTGGTGACACATTGCTTTAAAAAAAACANCTCTT
GGTANGTCTGGCTGANNCATACTGGGNCNTTACCTCGGNCCGCGACCCCGCTT

SEQ ID NO: 2046 ACGCGGGGGCAGTGAGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTG
ATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGACGAAGAATTTGATGAACATGTTTTGAAT
TTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAGTAAAGAACAAGGTAATGTA
AAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAGATATGATCTC
CTGTGTCTGGAANGATTGGTTTCGAGGACTTCANGTCTTCAAAGAAAGGATAAAAGGCTTCAGTGT
ATAAAACGGGTAATGCCTGATGAAAAATCCAAAATTGATTATCACAGAAGAAACAGCTAAGATC
CGTNCCTTTTGGCGTAGCAGCANTTCTCCGTAATATTAAAGTTTACTAAGGATCCATTGACNGCTT
CATTTGAACCTTCNAGGGAGAAATTACATNTAAAATATTTGCANGGAAAAANAACACNTGGTTTG
CCATTTGNT

SEQ ID NO: 2047 ACGCGGGGGTAGCCGGAGCCGGCGACGTGAGGCGGGCGTTGCTCGCGCGAC
AAGTAGTTGCTGGGACAGCGAAATGGAGGGGTGTGTGTCTAACCTAATGGTCTGCAACCTGCCTA
CAGCGGGAAGCTGGAAGAGTTGAAGGAAAGTATTCTGGCCGATAAATCCCTGGCTCTAGAACTGA
CCAGGACAGCAGAACTGCATTGCACTGGGCATGCTCAACTGGACATACAGAAATTGTTGAATTTTT
GTTGCAACTTGGAGTGCCANTGAATGATAAANACCATGCAGGGTGGTCTCCTCTTNATATTGCGGG
TTNTGCTGGCCGGGATGANATTGTAANNCCTTTTGGGAAAAAGNGCTCAAAATGAATGCTTGTC
AATNAAAANGGNTTGTNCCNTTGGCCNGGACNCCNCTTNNNGGGGAAATTTNCACACTTGGGG
GNCGTTNNTATTTGGATCCCAGCTCTGGCCAAATTTGGGGGAAAAATGGGNATAANATGTNTCCCTG
TGGGGAANTTTTCCCTNCAATTTCCACAACATATANGNCGGNAANATAAAATGTAAACCN
NGNGCCCCNTNAAGGGGGCCCCCTCNCTTTTGTGGNGGGCCACTNTCCCTTTTANAAGNGGN
AAAANCNTGT

SEQ ID NO: 2048 GCCGTGGCGCGGCCGAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTACAG
AGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTCATCAGATGGCGGGAAGATGAAGACAG
ATGGTGACGCCACAGTTCGTTTGATTTCACCTTGGTCCCCCTTGGCCGAACGTCCACGTGGGGANC

CACTATAATATTGCTGACAGTAATAAACTGGCCACATCTTCAGGGCTGCAAGGCTTGCCGANGGT
GANAGTGAAATCTGCCCAGACCCCTGCCACTGAATCNGTCAGGGGACCCCGGAGTNCCCCGCTTAA
AATGCCCANTAAAATGAGCAGTTTAAAGGAGGNTGCCTGGCTTTCTGCTGATACCAANCCTAAGTA
NTTNTTATTGGTTGGAAGGNTNTANTAAAANACTTTGGCTGGGACNTGCATTTTGATNGTGCCTCT
CNCCAGATANAC

SEQ ID NO: 2049 ACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCT
GGCACCTACACTCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTG
GCTGATGTGGTCATCAAGTTCCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCCAGAACCTTTTC
ACTCCAAAACAGGAAATTCAGCACCTGTTCCGCGAGCCTGAGAAGAGGCCCCCACCCTGGGTGT
CCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCTGCTCTNCGCTCTGNNGATCCGGATTGG
TGCCAATGTCTCCAACCTTAACTTTTGCTCCTAAGCACGATTNTATTTACCTGGGGACATTGCTGC
TATGCTGGGGACTCATGTATGGTCTACTGGGACTCACTTANCATTGTTCCAAGACCTTGAANTTCC
TGNCGGGGCGGGCCGCTNAAANGGGCGA

SEQ ID NO: 2050 ACTGAAAACATGAAAAACAGCAAAATCCAAGGGTGAAGTTTGACCTANATTG
ATAACCAAATCTAGCAAACCCACATGTATATATAAAATCAGAGTGAACACTAGCCGGGGCGGTGG
CTCGCCCCGTGAATCTTAGCACTTTGGGAGGCCAAGGCAGGTGGATCACGAGGTCAGGAGATCAA
GACCATCCTGGCCAACATGGTAAAACCATGTCTCTACTAAAATACAAAAAATTAGCCGGGCATGG
TGGTGCATGCCTGTAGTCCCAGCTACTCAGGCGGCTGATACAAGGGGAATCGCTTGAATCTGCAA
GGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGCAACAGAATGAGACTCT
ATCTCANNAAAAANANATATNNAAAAAANNTCC

SEQ ID NO: 2051 ACTGCAAGACCCATCTTCCCTCCAGTTAATACACTCCCAGGATGGGCTGCAG
AGGGGGGAGACTCTGAGAGAAGCTGGAGGCCACAAAAGTCCACTGACCTTCTTTCTGTCCAGAA
ATGAATAAAGGACCCAGTTGTGCTTTCCTTCCAAAATCCTCAACAAAGTTGTTGTGCTCCAAGAA
AATGTGGGAATAAAAAAATCATGTCCAGGTCATCTTTGTGTGTGTGCGGGGGAGGTGGATGGGA
GGAAAAGGCATGTATTAATAGATACTGCTGCTATAAAATGACATNAAATTATAGCCCTTGATCTG
GTTNTGTAAACAATGCCGNTTTTTTAGGTTATTTGGCACTCCCCCTANTATACNTAGCCCANATTCT
TTTNTNAGTCAAGTGCTTNTTTTTTCCAAAATAATCCTNTGAAATC

SEQ ID NO: 2052 ACCTTCTTTTCAGAAGTAAAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAG
AAAAATGGGCGCCGATCTGGAAGGAAGGATGTTGCCACCTTTGNACCTTGACNAGAAAACCAAAT
TNTTCATTATTTNGCTTATCTNGTTGACCGCCAACGTGATNANATCCTGTTAGCCAACAAAAAAN
ACTTGGANGAAGCAAAAGGGANACTTGCAGCTTNCNTNGCTGAAACGTTTAAAGCCTTNCACAT
TCAAAATTTGAACAGCCTGCCATCGGTCTTGCNACAGATCGCAANCCTCCTCCANNACAACGTGG
GGACCTGTTTTTGCGCCCCACCCCAAATCGCCAAAAAATTTGGAAGTGAACAAAGTGACTGTCCA
ATTGGAGTTCTGCTGGNGATCTTTGAATCTTCGNCTGATGCTACCCCANGTGGGACTTTGGCTNT
CGCAAGTGGCAATGGGTTNTTNCCTCAAAGAGGGAAGGNTGCNACAGNAACCCGGTTTTNCAC
CTCTGACCCNANAAGNTNTTTTATCCATGGGGTNAAGGAGGGCCNGCCACTTGGTTNAAATCC
CNAAAAAAATTTTAAATTTTTTCCCCCTTTANAAAAAAGATANAATTTGTCTTNCNNGNGGT
TTTCCANN

SEQ ID NO: 2053 ACACATTAAGCATCCCCAGTTCCCCTCGCACACCCCTTTTCCCAGCCACTAGT
AACCATCCTTCTACTCTCTATATCCATGAGTTCAATTGTTTGTACTTTTAGATCCCCGCAATAATT
GAGAACATGCAATGGTTGGCTGGTTCTGGCTTAATGTACTTAATATAGTGACCTCTANTTTTCATTC
ATGANTTCTTAACTGGCCCTGGATTTTTCACCTTTATTTTAAAGATTTTGGAAGTCTCNAACTGGT
CTTATTTTTTAAACCCTNATATACAATTTCCCTCTAACTTATAAACTTCCCTTATATTATTTGNAATGN
GNCATAACATANNACCTTNGGCCGNGACCACCTAANGGGCAAATTNCANCNCACTGGNGGGCC
GTTCTAGTGGGATCCGAGCTTNGGACCAAANCTTGGGGGAAACATGGGCAAACCTGTTTNCNTGN
GGGAAATTGTTTTCCNCTCAAATTCNCAAAAAATACNAGCCGGAANCATAAAAGTGTAACCC
CGGGGNGCCTATNGNGGGNCCNCCCATTTNTNNGGGTGCGGCCAACNGGCCCTTTTCA

SEQ ID NO: 2054 ACTCCAGATGGCGCCAAAGAATAAATAGGCAGGTCTCTATGATAAAAGAACA
AAGGGAAAGCAGTTTAGCTCGATTGTTGATCACCTTCACCAAGCGCGTCTTGCTAGAACATATTT
CTGAGCAGTGGAGATTTTATCAACACCAGCAGGCATCACAGACTGACACAACCTTTTATCTCATC
TGGGGGAAGCTGCTCTACATTTTGTAGCTTGTGCTGACACTCTGTCNATGACTGCATAATAGCTGAAG
AAATCATTANCACTCTGTTTCAGCAGGTAGATGATAATGCCTAAACCAGGCAGGCGCCAGTATGG
AACCCTGGAACCTTGGGTATCTTGCCGNGTCCATTTTATTAAGTGGTTTCTAAAAGNTTAGGAGT
GAAAAAACNCCNANCNTGCTGGAANGGAGGGGAACCTCTGTACATGAGTGACTGGCAATATTC
CATTACATTGGCACAATTGNTTATACCAGNTCAAACCTNATNTTTTTTGGTTACTTATCTCCCCC
ATTATCGNCTTGAAATTTAACTGACCNAGCTTNTCNAACCNCCCAAACGACTTTTTTNTCCTAANCC

TGGCNCTGGNATCTTCAATTTTTCCCTTGGNCTCCTTAAAAAACCTTNTTTTCATAACCGCAAGNTC
NTTA

SEQ ID NO: 2055 ACTAAAGATGATGATTNNTTNGTGGNATGCCTGAAGGGGCGNGGCNCCATTCA
AAAAAGTATTGGAAAAACATTAACCAAGAAAAAGGCTCCTTGTCCCTCCTAATCCATATCCANATA
CCCCCANCCAAANATCTTAAAANGGATAGACCAGCCNTATNCCAACATGCCAGGATTCCAAAAGC
ATGCCTCANCTAATTAGGGTNTTCCCTACAGCAAACCTGGGGTANAGGGGCTCCATCCTGCAATAN
CCANAAAGCCTTACCTCGCTAGGCCAAGGGTATGGAATCTAAATGAANACTGNCCACAAACAGT
GGCTNTAAACCTGGGCTTAAATAAAATAATTTTTNCTTCATTACATGGCCAAAGGGAGAGGAG
GANATNGAAAAGATTGATTTTACTACCTTTGGGGGCTGAAAAACCTTCCCTTGTGTGGTTGGAAGGG
GGTTTAAAGGAAAAATAACAGGAAAACCTGTCTNNAAAAAACATAAATNAAANCTCNTGGAAGC
CNCTTTT

SEQ ID NO: 2056 ACTNNTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTAAGGGCCGCAAACTGCTGCAA
ACANANTGGTGATAGCCCCTAAACATAATGTTAAAATTTGGATTAATGGGCTATTTTCTGCTNGGG
GGTGGAAACCGATGAATAAAAAAAATCCTGCTACACTATATGCTTGANTGGANTANGGCTGAAAC
TGGGGTGGGCCTTCTATGGCTGAGGGGAATCANGGGTGGANACCTAATTGGGCTGATTTGCCTGC
TGCTGCTAAGAAGAAGCCTAATAGTGGGGTGAAGGCTTGGATTAACGTTTAAAANGGCTATTTGT
TGNGGGTCTCATGANTTGGAGTGTAGGATAAATCATGCTAAGGGGANGATGAAACCCCATNTCCC
CGATACCGGTTGTATAAGATTTCTTGAATGGCTTCTTGTGTGGCCATTTCTCGGGCNNTTNTNT
TAACTGGTTGAGCCAANAAGGTTTTNTTCTTNNCCCCCTTTTACCNTTAAANNNTTGGGAANAA
GGTTNTTACCGGGAACCTTAANATTTATTTGNTATTTNGAAAAAANNATTAATTTTTGAAAACTC
NTTTAATGTTGGGTNNGNTTTTTATTNCCNNNGGAAATTTTTTTGGGGGCCTTTTTAANAANA
AAN

SEQ ID NO: 2057 ACTGTAATCCAACACTTCTTTGTTAGCACAGCCACCCAGTTCCACACCCGGG
GTGCTTTTTTGCCCTTCTCCTTTGGAGCATCTGACTTCGTGGACTTGTGGACTTCTCCATACCCCTC
CATGCTTCTGAATGAACCTCCTCGCGCTTCTGCGGATCAACTCCTTTTTGGAAAGTTCTACTCCGTTT
TCANGACCCACTGGAAGACCTGACTTTCTGCANGGACTGGTTTGCTTGGTACCCAAAGGACCATN
AAAAACCTTCTTNTTTGGCCCCCTTTTTTTTTTGCTATNCTTGCITTTTNTCTTGGGGCTTTTTCCCCCG
GNGTCTCAATNTTNGACCTCANAGTTTNTTGGGCCTTTTCAAATTTTAAAATTTNTTNATNGGG
NGNGGGANCCCGGATNTTANTGCCCTCNTTTTTTNNANAAAGGAGACCCCAAGAANNAITTTTGG
AAAAAANGCCATTTAATAAACTTAAANCACTTGGNTTGTGGATAATTTTNGNGGGCCN
TGCCCGGGNNGGCGNGTTTAAAAGGGNGAATTTNNNANCAATGNNGGNCCGGTTNTNAATTGG
ATACCAACTCTGGANCCNAACCTNNNGGAAAAAANGGGNTAAANTGGTTTTNGGGGAAAAATGTTT
CC

SEQ ID NO: 2058 ACAAACATGGGTGAGCAAAGTTCAACTCAGGTAATAAGTGATTAAAAAACA
AAACATGTAGTGGGTCACAACCCAGACTGGTTTTCACTGTGCAACTTTCCCTCANGGAATAATACCC
ATTCACAGAAAGAAAGGAATNTGCNTCCAAGCCTTTGTTTATAAAGAAAATGCCCTTCAAACAAA
TTCATCATNAAGCTTAAAAAAGGAANGAAAAAGGGGTGAANCCGTTTGGCCCAAAA
AAAAGCTTAAATATAATGGGGTATACCTACTTATAGATATGTTGCCATTTAAACCCNTGGATNTAT
ACATTTGCAATTAATGAATTGGCTCAGTAAAGTGAAGGAGTGTCTTCTATAAAATGTGNTAT
TGCTGATATGCCNCACATTTTGCCTNTGCTAGTGGAGCTGTGTAACCTCNAATTTTAAAGCTGCCCTNT
TGNCNGNTTANCCCTCANTANGCATTTCTGTGGACAACATGCCTCCAATTCTTGAANAAAAACAAA
ACNCCCTTCTTTCAAAAAAAGGGTTTGGCCNGCCCTACATTTTTTGGTTTTTTTTTTTAAAA

SEQ ID NO: 2059 ACCATTTTATTTAGTGTTGTAGGAAATGTTGGGTTACTTCTTAAAAACGAAAC
CAAAGAAATTCAAAGTCCCAAAGAAAGAAAGCAGGAAATAATAATTCTATAATCCAAAAACGT
TGGGCGATCCTTCAGTTGGAGGAAGAGGGCGTCAGTTAAGTAGCTCACACAGTAGATATGGAGAC
ACCATATGGAGATACGGAGTTAAGTTTGGTGGATACTAGGAATTAAGTTCTCCACCTAAGGCAATT
AATTTTTCAGCCTTGAGAGATAATTAGTAGTTCTAGAAAAAGAAAAAAGTTGACTGGGANAAGGG
TGGGAGGGAGGATGGTGCCTCATTTAACATTAAATTGCCTCTCTCTACAGTATGTGGCTGAGCATC
ATGGCCTTCTCCTCTGCCCCGTGAACCTCCCACTGTTAGCAAACCTGAGAGCACATGCCTGTGTC
TTCTTCATACCGCATGTGCACACACACCTGTATCTCCTTCATCAAGGCATATGCAGACCCCTCCA
ATCGGGGGTCCCAGCTTGTTCATTTTGGCAAAAGGGCANAGTTACTCCTTCATCCCCTCTGCTG
CCTTGATGAGGTGAACACACTGGAATAAGATGGAGGGCAGGATACCTGCCAAAGCCTGAGGAAT
GANAT

SEQ ID NO: 2060 ACCCATCATTACTCCCACTNAGAAAGAAGAAGTAAATGAATGTGGTGAAAGT
ATTGACAGAAATAATCTGAAACGGTCACAAAGCCATCTTCTTACTTTACTCCTAAACCACCTCAA
GATAGTGCGGTTATCAAAGCTGGATATTGTGTAAAACAAGGAGCAGTGATGAAAACTGGAAGA

GAAGATATTTTCAATTGGATGAAAACACAATAGGGCTACTTCAAATCTGAACTGGAAAAGGAACC
TCTTCGCGTAATACCCCTTAAAAGAGGTCATAAAGTCCAGGAATGTAAGCAAAGCGACATAATGAT
GAGGGACAACCTCTTGAATTTGTAACAACGCTCTCGAACTTTCTATGTGCAGCTGATACCCCTGAAAA
AATGCACAGTTGGATTAAAGCAGTCTCTGGCNCATTGTACACAGCGGGGTCCCGCAAATCTGCG
TCTTTNTGACATCCCCCGGTCCTTCANAATCCCAAAACACGCTTTCCGTCCTCCAACGCAGCCGGC
GNCACCTTAAATTTCCACAGCCTTTNGNAGCAACTTTTTGGTCTTAAACCTTTACCATGGGANAAA
CGAGGATTTTACNAATCTTTTGCCCAAGGTCAAGCCAGGGGACTTNAAGGTCCAACGTCTTTCAA
NAAA

SEQ ID NO: 2061 ACAAGATCTACCCCGGANNTTGGAGGCGCTACGCCAGGACCGACGGGAAGG
TTTTCCAGTTTCTTAATGCGAAATGCGAGTCNGGCTTTCTTTCCAAGAGGAATCCTCGGCAGATA
AACTGGACTGTCTCTACAGAAGGAAGCACAAAAGGGGACAGTCGGAANAATTCAAAANAAAA
NACCCCGCCGANCAGTCAATTTCCAGAGGGCCNTTACTGGGCATCTCTTGCTGATATAATGGCCAA
GAGGAATCAGAACCCTGAAGTTANAAAAGGCTCAACNAGAACAANCTATCANGGGCTGNTAAGGA
AGCAAAAAAGGTTAANCAAGCTTCTAAAAAACTGCATTGGTTGTTGTTAAGGCNCTTCCAANGGC
GCCCCCTAACCAAAAANATTGTGAANCCTGTGAAAAGTTCCTTCCCCGAGTTGGNGGAAACCNCT
AACTNGCAATTAAATTTTAAATAAGAATGGATTTTACTCC

SEQ ID NO: 2062 ACCTGTCTTTTCTTTTTCTTTTTTAAATCATAGTTTGTTTTACCTGAAAGTTG
AGAAAGAATGCAGTATAAATATAGCTTTTCTCTACACGGGAGCAGGGGGAACAGAACCAATCCCC
AGCTTAGCCACACCCCAACATCATGGAAATTACTGTGAACCTGTTGTCTCTTGAGGACAACTAAAA
CAAAACGAAATCCCTAACATTATTAATGTTAGGAACTTTTCAGGTAATTGCTGTAACCTCTGGTA
AAATACAGAAAGATTACATTCTCATAATAAAAAATCAAAGTGGCCACGCCATCTGCAAAGGGAA
CTTGCAACCATCTTGGTTTCACTCGCATTGGTTAACAGTGCCTTAAAAAGTATACACCTTTTTCAAGG
ATAAAACCATANGGTAATATCTTGGATCATATCCTCTGCATGATGAACATCACTCAAATTATCT
GTCATGGGTTACCTTACTAACACTGCCAAAGAAGATAATTAATGGATAATTTTAAACAGGGATAGG
AGAAACCTTGCAAAACCTTTCAAGGTTTCTTTCATAACTATTGGTTTATTATTGCATATTTTTAGANG
NNTTATCATCAANCTTATNCNTTATAGGCCAATATAGTACCAATGGCTAATTTAACTGGCCCACTT
N

SEQ ID NO: 2063 ACTGGCTCCACCCCTTGGTGCTGGCAGTGTTTGGGGACATTATGCTGGAAAG
AGCTCCTAGCATCAGAGGATTAACACTAGCAGATTCTGTTCCATCTTTGCACTGTTGCTTACCTGCT
GATTTTCTTAACTGTTCTTGTGCAATCGACAATGTGCTAACCTGCTTTTTTCTTTTTGTAAACGTTTT
TGCATTACAGGCTGCATTCTTGCCCTACTGTATAGAAAAAGAAAAAAGGCTGGGTTACTATTGCA
CATTTTTAAGCNTTTAAATACCTTTATCTTCTTGGAATGGGCAANAATTCTGAACCTGGAACAGTCA
AAACNACAGGTNTTGNNTGTAAANGGAATTTTAAATTNGNCCATTTTNACCCCTNNAGGNNAANN
ACTTAANAATATNCCNTGTGNTTNACAGNNGTGAGGGGCTGTTTATNTNATGTTGCATAAAATTN
NTTGTNAAAANGGGAAAGTGNTTCTTATGGG

SEQ ID NO: 2064 ACATATAGGTGGAATGAATTCTATCCTTGACATACTGAGGCCAAATTACAGC
CTTITCAATAGCTCCAATCTCATTAGACAGTCCCAAGCCATAGTAGCACAATGCTCCAAGACCAAC
AGCAGCCCCCTTCCAGCAACAAACCATCTTCCATCTGATCAAATTTAAAATATTTTTTATTCGATGG
GTTCCAATGGCTGCCTTTTGAANTCNTTGGCCCATTTTTCCACGCCGGATCCAATTTTTTGGTTTTG
GNGGCTATTTCTGGCTAGGGTTTAAACAAGCCNNTTNGATCTTTNGGAATGGAATCTTTACAACA
AGGGAGGCTTTGTGAAAAGCTTGGTGGAACCCCTNAAAAGNANTGNCCGGAAACACNCCAC
CTGSCANCAACATGGT

SEQ ID NO: 2065 ACTAAGTAAATGTTCTGCTATTATTTTTTAATTATATTTTTTAAACATCTCATT
CCTCCTTGTGCACCTCTTGTTCCTTTCTGAATTATGTTGACACTGAAGACCAATGGGGTTCTGCCA
CGGGTTAATTTAAAAAGAACTGGGGCCTCATAANGGACTAAAAGAAAATTAAGTACCTAATG
GTACTACCAATNCTTTTTATAAANATAATGGTTNGAAACCTGGGGATAAANGTTAAGGANCAAAA
CTTGGTTGCNANCCAATGGGTTGTGGGGAACCTGTGGTTTCTGAAGGGGTGAATTAATAAACAG
CTTGNTNAGTTCCCTGGAGCCTNTTTTTNAAAAGTCANATTTCANACCCCCCCCCGTTCTGCCNG
GCGGGCCGTNNAAANGGCCAATTCCAACNACTGCGGCGTTCTANTGGATCCCGANCTCGGACCA
AACTTGGCGTNATATGGGCANAGCTNNTTCTTNGGGAAATTGGTATNCCGTTACAATTCCCANAA
NATTCANCCGGAAGCATTAAAGTGNTAAAGCTGGGGGGGCTTATGAAGGGACCTACNTACATT
NATTGCGTTGCCCACTGGCCNTTTCAA

SEQ ID NO: 2066 ACGAAGAAAGCATTTCCCAAGCAATGAGTCTCTTAATGGAAAAAATAAAAGA
GCAATGTAATTAACCTTTCTTCAAAGAAAGGAAAGAAACCTAAATCTGTTATGGCAAATTTGGA
AAGATAAATATTTCTAGTCCCATATATGTGTTTGTTTTACAAAGATATGCTTGAATGATGCAAA
TCTATGAAGCAGGGATCTGTGGCAATCCAATTCATCCACCAGAACTCCATCCTTGTTTTTTTGTAT

CAGTGGGGAACACCTTCTGGAATTGCANGTGCAGATGCTGCCTCATCCAAATAAGAACTGCTTCAT
CANCCAGAAGCTCATCACCTAGTGCATCCAACTCTGCTTCTAAATCATCTTCATCCAGTTCTGGGG
TGCCATAACTGCGACTCAGTGCTTCTTGGATTTCATTTGCATCTTCCATCATATCCTCTACTGGTCT
TGNAATCCCTAATCTGGTGCATCTTCACTTTGCTTTGTATGCCTTCTTCATTTCCCTTAACTCCCAA
GTTTCTAGCATCAACCGNGGTCTTTGGTGTNCCTTCAAAAGACTGGATNGTATAATTGGCTTGNTC
CTGTTGAATGAACTGGTGGGGCAAAATTTGCCGNTGCTGGTCATACNTCCTTTTTTGGTTAAAA
A

SEQ ID NO: 2067 ACCAGCTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGAC
AGCAGCAATGGACACTCTTAATGTTTCTATGTCAGCTGCCATGGCAGGCCTTAACACACACACCTC
TGCTGTTCCGCAGACTGCAGTGAAACAATTCCAGGGCATGCCCCCTTGACATACACAATGCCAA
GTCAGTTTCTTCCACAACAGGCCACTTACTTCCCCCGTCACCAAGCTCAGAGCCTGGAAGTC
CAGATAGACAAGCAGAGATGCTCCAGAATTTAACCCACCTCCATCCTATGCTGCTACAATTGCTT
CTAAACTGGCAATTCACAATCCAAATTTACCCACCACCTGCCAGTTAACTCACAAAACATCCAA
CTGTCAGATACAATAGAAGGAGTAACCCCGATTGGAGAAACGACGCATCCACTGCGATTAC
CATGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTAAAAGCTCACCTGAGGACTCACACTGGT
GAAAAGCCATACAAGTGTACCTGCGGGCGGCCGTCGAAAGGGCG

SEQ ID NO: 2068 ACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCCAACAA
TTCCTGAAATGGGTCCCTTACTGGGATTATTACAGCACCAAAAACTTCTCTGAAGCCTTTCTCCA
CAACCTTGTCTATGGGATTCCATAATGGTACCAATGGGATTAAAGCTATGAACCTCAAANCATC
ACGAGAATAACCATGATGGGTCTAAGACTTGGGAAAACTGGCCTAAATTATGNTGGAAGGGAATT
ATGTTAAATTTGAATTCATCTGGGAAGCATTCAAACTCAANCTTAAAGNCTAATCTGAAATGCTATG
ACAGCCTGAAAGGNAACTGGGAATCTCATTCTATCATTTGACTAACTTAAATGTTGGATCAATAT
ATTTAAGNGGNATTGAAAATGCTTTGGAGGGAGTCACACTTATACTATCAACTATTAGTCTTCCAC
AGCTTCAATCACTGGCATTATTCTAATCCTCTCCTCTTAAATTTTAAAGTTATGANGGTTATGGCAA
AGCAACATTTGCAAATGTCCCTCGGNCGCGACCCCGTTAANGGC

SEQ ID NO: 2069 ACTTTNTTTTTTTTTTTTTTTTTTTTTTACCATGCAACGAAACCTTTATTAACATT
TTGAACAGGTTTCAGCTATTACTGAAACTTGTAATTTCTAAACTTAAGTTGGGGCAAATGGCTATAG
TGCAGAATAATGCCATCACTGGGCATGCGAATGCCATGACTGAAAAATTAACAGCCACCCNTNA
GGCGCAGGACCAGGTGCAGGGTCCACTCTTTCTGGATGTTGTATCAAAAAAGANTGCGGNCATTN
TTTCAAGCTTNTTTGCCTTGAAAAAANAACCTNTGCTGGTTCGGGGGGGATCCTTTTTTTATNTTGG
ATCTTGGCCTTTACATTTTCGATGGGGTCNCTGGGCTCCACCTCCAAANTGATGGTCTTGCCGGCA
AGGTCTTCACNAAAAATCTTNATTCCACCTTTTAAACGCANGACCAGGTGCANGGGTCACTCTTTN
GATNTTGAATCAAAAAAANTGCGGCCNNTTCACTGNTGCCTGCAAANATAACCTTTGTTGGTCC
GGGAAGGGATGCCTTTTTTNTCCTGGANNTTNGCCTTTAAATTTTCNATGGGGNNTAACTGGGCT
CNATTTNCAAGGNANATTGGTCTTGCCNGTNANGGTTTTTAAAAAATNTTGNNTNACCNCCTT

SEQ ID NO: 2070 ACAAACCTCCCAATTGCACCATTAAATTATGGGGTCACATCCAGTTGACAATAA
ATGGACCCCTTCCTTCTCCTCAATCACCAGTGCCAACAGTGTTGATCTTCCTGCCTGTTTCTTCTTG
AAATTTCCCAGCCAATCCCAGTATCTAGAGCATTTGTCAGAACTGCANAACCTGCACAGGAATTC
CATTGTTGAAACTCAACCAACTTATGCCCCGTGATGAACTGATCACTCANTTTGAGCTATCAAAG
GACCTTGACCCCATACCTTTGAATCACAACATGAGATTTTATGCTGNTCTTCTGCGCAAGAACT
GCTATTTCTCAACAAGGATGCTCCTCTTCCAGATGGCCGAAGTCTACAGGGAACCTTGTTAGCA
AAATCACCTTTTCAGCACCTTGCCGAGTTCTCTTATCTAAATCTGATCAAACCCAAGTGGGNCTA
TAACACCCCTCATTTGGAAGCTGGGTNAAAAAACTATTCTGAAANAAAAATTTTCTGGGCTTTT
CCAAATTTGAANTGNNCCTTTTTCAAAGTCTCGTTTAAACNTATTTTTTTNANNACCCCTGNTGAATG
ACTCCC

SEQ ID NO: 2071 ACTTGTGGGCCAGCTTAAGCAGCTGAGTAGCTGTTTGGCGGTCCAGGGCCTG
GGTGAACCTGGTTAATCGCAGGAAGCACTTTCACCCGCTTATAGAGGATGGGCTCTCTGCCCGCTGC
AAACCTGATATAGCGGGGCCATTTTCAAAAGCNGGTGAAGGGTCTTTTTTTGGCTGGAATGGTCC
TTGCCAAATGCCAAATNTTAAGGCTTTTTTNAAAAAGGGGAATTCACCACTTTTTTAANCCTC
CTGNTTTTTTAACNAAAAGCTTGGGCCCGGAACCCACCTTTTTTCTTTGGGCTTTTTTCTTTNC
GCATTCTTGGGCGGCGGGAAGAAAAAAACCCCNNTTCCNTNGGCCGNAACAACCTTAAGGG
CNAATTTCAANACACTTGCGGGCCGTACTTANTGGANTCCNAACCTTNGGNANCNA

SEQ ID NO: 2072 CACTACAGAGCAGTTGGGGTATGATGGGCATGTTAGCCAGCCAGCAGAACCA
GTCANGCCCATCGGGTAATAACCAAAACCAANGGCAACATGCAGAGGGAGCCAAACCAGGCCTT
CGGTTCTGGAATAACTCTTATAGTGGCTCTAATTTCTGGTGCAGCAATTGGTTGGGGGATCAGCAT
CCAATGCAGGGTCGGNCAGTNGGTTTTAATGGAGGCTTTGGCTTCAAGCATGGTTTTTAATCTTTN

TGCTGGGGAAATGTAAACAGGGGGGGTTGTGGNT

SEQ ID NO: 2073 ACCCTTCNCTTACCTATGCCCATGTGCCTGCCCTTCCGGCGGGCCAAGGTGT
TTTTCCGGCNTCGAGCCCGGGAATGGACCGTCACAGGCTTGCGGATGATCAGCCCATCTTTTGAT
GANCTTNCGGATCTGCTGACGGTAAGTTGGCATTGGGCGATTANATTGGTNTCATTGGTNGTCTA
NCCACACCTTTNTTTTTTGNCNAC

SEQ ID NO: 2074 ACTTTTTTTTTTTTTTTTTTTTTTCTGGCCATTCTTGGCACTGTTTCTAAAG
AAAACTCCATTATCCCAAGCAAAAAGCACAGAAGGTGGAGTTTGGCTTCAAGAGATGTAACTC
AAAACTTAGGCCTAGCAGANAATCACCAAATTTATGGAGAAGTTAAAAGGGTTTAAACAGGGAA
GGAAGTGCCTTTATTAAGTTCTAAACNANAGGCTGGGAGNCACANNTTAATCAAAAGGAANNCTT
CCTCAGNGAAAGGTGAACCCATTCCGGGGTGGCATGTACCTCAAGAATTAACCCCACTTAAAAA
CAAATGATTTTCNTAGGATANCACNNNGCCTGGTGCCTGTGAACCTGAGGCNCTTTGTAACTTG
GCNCTGGTTNTGAATNNGGANACCCAAAAATTTTNCNTCTGGTATGAACCTTNTATGGCTCNATCC
TTTACCTTAACTTTGTAAANCANCNTAAACCCNACCCNTCCAANATTACCTTTTTTGGGGGA
ACNTTTNTTNTGGCANCCCAAANGAAAGGACCTNNTATTCCCATTTAGACTTNCCC

SEQ ID NO: 2075 ACCCTTCNCTTACCTATGCCCATGTGCCTGCCCTTCCGGCGGGCCAAGGTGT
TTTTCCGGCNTCGAGCCCGGGAATGGACCGTCACAGGCTTGCGGATGATCAGCCCATCTTTTGAT
GANCTTNCGGATCTGCTGACGGTAAGTNGGCATTGGGCGATTNNATTGGTNTCATTGGGNGTCTA
NCCAAACCTTTGTTTTTTGNCNA

SEQ ID NO: 2076 ACCCTCTCCTTGTTCTCTTCAGGAATCAAGGGTCCTGATGCGGCAAAGGATGA
AGTTTTAGGAAGCTCTGGGTCAACGCTCTGCCCCCTGGCATTTANAGATANTTGCCAGTGGGC
TTTGCCATACACTGGCACCAAGTGTGNTNAAGTCTGANGCCCANCTATNCACANGTCTTTCTGCCNG
ATCCTCCAAATGNACCANGATTAATGGTCAAATNTATGGCTCNTATA

SEQ ID NO: 2077 ACTTTTTTTTTTTTTTTTTTTTTTNNCTGGGAAAAAATGTTTTATTCTCTTTG
CACAGANCAGTTNATGAAGNGGTTTTCTCCTGACTCCATGCATCTTTNACACAAAGATGCCCCCT
TAAATATGCCCNGTNATCTGCCCCACCTCAGGNTTGAAANNTGGCACTTAGNAAGGGGGGCAAA
ATGCTTAAGTCTCANGANGGTTTTAANGGCATTTTGCGGAGAGNAATTG

SEQ ID NO: 2078 ACACAATGATATAACCAGCTATAAGTTTAAAGCTTAAAGCACTGTGTGAGT
GCTGGAGAACCAATTACCCCTGACGTGACTGAAAAATGGAGAAACAAGACGGGCCTGGATATCTA
CGAAGGATATGGACAGACTGAAACGGTGCTAATCTGTGGAAATTTAAGGGAATGAAAATTAAC
CTGGCTCAATGGGAAAACCTTCTCCTGCTTTCGATGTTAAGATTGTAGATGTAAATGGCAATGTTT
TCCTCCTGGACAAGAAGGGAGATATTGGCATTCAAGTCTACCCACCGCCATTTTGGCCTTTTACTC
NTTACGTAGATATCCTTCAAAACAGCTTCCACTCTACGAGGCAATTTCTATATCACTGGGACAGAG
GATATATGGATAAAGNNGGTTTTCTGTTTGTGCAANANCAGATGATTGCATATTATCCTTGGCT
ATCGANTTGNACCATTNAGGNANAAATGCCCTGATGACTCCTNAGTTGAGAGTCACTGTGTCA
NCCNAACCCATNGAGGAGAGGAGAAAGCTTTGCGTTTAATTCTGNT

SEQ ID NO: 2079 ACAAACCACGGATCTTGTGTCAGAAACACATGTTGAGACTCCTCCATTCTTC
CAGAATTTTCAGAGATGGGGTAGACCCACCTCAATCATCTCAGCATCAGTTTGCTAAATTGCCAG
GCTCAATGACAAGCTCTCCTGCCATCTCCAAGCCCACTTTTCATAGTTCCGCTCTGTCTTTGGCTGC
AGCACTTTAGGCACTATTTAAGTCTGGAGTATATCACTCTTGCTTCAGAGCTAAATAAACATTA
ATGAACACACTTACTCANACAAGTCTGGATAGCTGCCATTGCAAGTACATACTCAGGAGATGAA
NAAGGAAGCCTTAAANGGCTTCAGAATAGACATNCTAATCAAGATGTGGCCAGACAAAGACACA
AACTTTTTACCTAAAGANCCAATATTTCTGGATTNAANACCTCCTTCTTGGGCAAAAGAACTGATT
CAGGAGGNGAGTGATNTTAAACNTGAGGTTGGGACAGAGCTATGCCANAATCCACATTTGGGGGC
AAGCAGAAGATTGTTGAGCAGATTTAAACCGCTGGNAAC

SEQ ID NO: 2080 ACAAGCACTTAATTAAGCAGAAGAGCCCAAGAAGAAGAGGGAAAAAGTGG
AAGTGAGAGCCATTAATTTGGGGACAGATTATGAATATGGGGTNTTAAATATGCATCNGACTGCA
TATGATATGACCCTGGCAGANAGTTATGCCAGTNTGGTCAANCCTCTGCNACTATCTNTTCNTT
ANANGNCNAGGAANGGNTTCNATGNCACCCAGNANCNNTATATGGTGTAGTTNGT

SEQ ID NO: 2081 ACGCGGGGGTCTCTGTTTCTGGCCCTTGCTCTGCAGAGATGGCTCCCAATGC
TTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTAATGACCTTTGATGCCAACCCTAT
GACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAGACCAANGTTCTGTGCAGGACCAGGT
TCTTTTGCTGGGCTCCAAGATCTTAAAGCCNCGGAAAAGCCTCTCATCTTATGGCATTGACAAAN

AAAAAGACCATCCACNTTACCCTGANAGTGNTGNAAGCCCAGTGATGAGGAACTGCCTTGTTTNT
TGGGNANTNTGGT

SEQ ID NO: 2082 ACGCGGGGAGAGCGCCGAGGAGCCGGTCTAGGACGCGAGCAGATTGGTTTATC
TTGGAAGCTAAAGGGCATTGCTCATCCTGAAGATCAGCTGACCATTGACAATCAGCCATGTCATCC
AGGCCTCTTGAAAGTCCACCTCCTTACAGGCCTGATGAATTCAAACCGAATCATTATGCACCAAGC
AATGACATATATGGTGGAGAGATGCATGTTTCGACCAATGCTCTCTCAGCCAGCCTACTCTTTTAC
CCAAAAAGATGAAATTCTTCACTTNTACAAATGGACCTNTTCTTCAGGAGTGATTGGATCTGGCT
ATGCTCATTATTGGGGATGTGCATTGCCATCTTTGCTGTGTGGNCTCCACGCTTGCCCTGGGACAGA
GCTATGGAACCTCCTTTTANGAGGTANGTAGGTACCCCTATGGAGGAAGTGCTTGGTANCTNCGAA
GTGGTATGNTATGGTNTGGTNTGNTATGGCNCGGAGGTATACAACCAAAACACAAAGGCTTNTN
TTGCCATGGTGCCTTTGTTTCATTGCCCCGTGGGACTTGTACCAGGTAAAAAACTAAAG

SEQ ID NO: 2083 ACGCGGGGAGAGCGCCGAGGAGCCGGTCTAGGACGCGAGCAGATTGGTTTATC
TTGGAAGCTAAAGGGCATTGCTCATCCTGAANATCAGCTGACCATTGACAATCAGCCATGTCATCC
AGGCCTCTTGAAAGTCCACCTCCTTACAGGCCTGATGAATTCAAACCGAATCATTATGCACCAAGC
AATGACATATATGGTGGAGAGATGCATGTTTCGACCAATGCTCTCTCANCCANCCTACTNTTTTNNC
CAGAAATGAAATTNTTCACTTTTNCATGGACCTCTCTCCAGGAAGTGNATTGCGNCTGGCTT
NCTTAATTATTGNNATGNGCATTGCCATNTTGTCTGGGTGGCCTCNCCTTGCCCTGGAANAAANGT
ATNGNAANTCCCTTTTNGGAGNAAGNGTAGTNTCCCTTANGNAGAAGAGNTTTTGGNATNTACA
NAAANGNTTNGGTTNGTNTGGGTATGGTTTGCTACGNGGGCTTACAAACCCAAATCATAAAGGGC
TTAANGTGGCTTGCTGCTTTTNTTAATGC

SEQ ID NO: 2084 ACGCGGGGACGCTCGACCCAGGATCCCCCGGCTCGCCTGCCCGCCATGGC
CGACAAGGAAGCANCCTTCNACGACNCAGTGGAAGAACNAGTGATCAACCAGGAATACAAAATA
TGGAAGAAAGAACACCCCTTTTCTTTATGATTCNGTGATGACCCNTGCTNTGGAGTTGNCCNNTCTA
CCTGCNNAATTTCTTCTGATNTTCCNTTCCANTGGGGGAAATAA

SEQ ID NO: 2085 ACAAACAATGTTTATTTGTTTGTAAGTGCCAGGTTTATATTTAAGTAAACAT
TAAAATCTGCGTTGAAGCAGTGAGGCCGCATCTTTAACTGGCTGTGCTGGTTAAAGGACTGTTTA
ATCCCGCTGTGCTAAGCTCACTAAAGGGTCACCCCTCACTTTAAAGCCAAGACTGCCATTGTCACT
GCTATGGTAAGTCACAGCCAGCCAGGCCTTCTGGCAAAAGGTGATACTACCAGCACTATAAACAG
ACGGACTGGTTGTGAGGNANCTCACAGTTTAAAGATGCTTGTNANGAACATTACGGACAATTN
TTGNGNGGCTAGTTTGGNAACACT

SEQ ID NO: 2086 ACCGGGGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAGGAAC
CAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACTTTGCCGTTGAAGCTGCTAACT
ACCAAGACACTATTGGCCGCCTGCAGGATGAGATTGAGAATATGAAGGAGGAAATGGCTCGTCAC
CTTCGTGAATACCAAGACCTGCTCAATGTTAAGATGGCCCTTGACATTGAGATTGCCACCTACAGG
AAGCTGNTGGAAGGCGAGGAGAGCAGGATTTCTTTGCTCTTCCAAACTTTTCTCCCTGAACCTGA
GGGAAACTAATNTTGGATTCACTCCTNTGGTTGATACCAACTCAAAAGGACCTTTTGATAANACGG
NTGGAACNTGAAATGGCAGGTTATAACNAAAATTTNTNGTAATANGANNACTTGANTAAAATGTA
CACCTCTGTGCTGCATNTATTACCACTAAAAAAGGTTTCCTCTGNC

SEQ ID NO: 2087 ACTCCACAGAGAGATGCAGACAAAGTAAACAATGAAGGTTGTTTTATAAAGG
TGATGACCATTATAGAGTCAGAAATGGGAGTCGTTGCAGGAATTTCTTTGGAGTTGCTTGCTTCC
AACTGATTGGAATCTTTCTCGCCTACTGCCTCTCTCGTGCCATAACAATAACCAGTATGAGATAG
TGTAACCCAATGTATCTGTGGGCCTATTCCTCTCTACCTTTAAGGACATTTAGGGTCCCCCTGTGA
ATTAAAAAGTTGTTTGGCTGGAAAACTGCAACACTACTTACTGATAGACCAAAAACTACCCAG
TAGGGTTGNTTCAATNAAGATGTATGTAGACCTAAAACTACCAATANGCTTGATTCATCAAAATC
CGTGCTCCAGNGGGCTGATCAACAAAATTNATTGTTGNTATGTTCTAANCCACCTNCTTCCATTN
ATGGTNAAATCNTGAACCCTGTTCTTTGAACACTGGAAAACTAGTAATTGGAAATAAAGAATNT
NGGTCCTTTGCTGTNTTTTCTAAANGGGGCTTTGAAGGCCTGGAATTCTTTTAN

SEQ ID NO: 2088 ACCATTACAGGACATAGGCACGGGCAAGGACTTCATGTCTAAAATACCAAAAG
CAATGGTAACAAAAGCCAAAATTGACAAATGGGATCTAATTAACTAAAGAGCTTCTGCACAGCA
AANGAACTACCATCAGAGTGAAACAGACAACCTACAAAATGGGAGAAAAATTTTGCAATCTACTN
ATCTGACAAANAGCTATTATCCATNAATCTGCANATGAACCTNCTCATNNTTTACATGAAAAAAC
NGNCCTTTNAACNANTGGGCAATNGGTTTGNACATATTCTNTTGAAANGAANACNTTTTCTCNCN
TNNGACCATGATAAANTGCTCTC

SEQ ID NO: 2089 ACTTTTTTTTTTTTTTTTTTTTTTTTTTATCCTCCAAACAGATTATTGAATACAG
CAAAATTCTATATACAAAGTGACCTGGACCTGCTGCTTCAAAACATGATCCTTTCTTACTAATATC
TTGATAGNCGGNCCATANAGCATTATAAAGCAATTGACTCTTAAATAAAACAAAAAAGTGCCTAAT
GCACATTAAATGAATGGCCTAACTACTGGAACCTTTANTANTTCTATAAGGTAATTAACATAGGTAG
GATCCAGTTCCTANTGACNGGCTTGCTGAAAAACAAATATGAGCNTCANNNNNGNCTTTTTGCGCA
CTGNCAACCGNAAGCCCTCNTGTTTATGGANCNAATGTCCCATTATCGATTCTANACNACCACNGG
AATTCANGGGGGCAAAGTT

SEQ ID NO: 2090 ACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATGGGACGTCATC
GTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCACACAATCGCAGTTTGGAG
AGATGGGAGGCAAGTTTATGAAAAGCCAGGGGCTAANCCAGCTCTACCATAACCAGANTCAGGG
ACTCTTATCCCAGCTGCAAGGACNGGCNNAAGGATATNCCACCTCGGTTTTTANGANANGACAG
CNTANTGCAGATAGANATTTGCCTGGAGGNTGCTNAGTTNATNCCGTANGA

SEQ ID NO: 2091 ACCCCTTAACCCCTCTCCTTCACCCCTTAGCAGCAAGTCCCACCTTTCTAGGG
GGCAAGAAACCCCAAACCCCTTCCCTCCGTGTCTTTACGCTCTCTTTCTCTGGGTTTGCTTCCTTC
ACTATGGGCAACCTTCCATCCTCCATTCTCCTTCTCCCTTAGCCTGTGTGCTCAAGAACTTAAAC
CTCTTCAACTCACACCTGACCTAAACCTAAATGCCTCATTTTCTTCTGCAACACCGNTTGGCCCA
ATACAAACTTGACAATGGCTCTAAATGGCAGAAAAATGGACTTTCGATTTCTCCATCCTACAAGAC
CTAAANNATTTTTGTCAAAAAAATGGGCAAAATGGTCTGAGNGCCTGATGNCCAGGCATTCTTTA
CACATCCGGCCCTTCTANCTCTGTGCCAGGCAACTCGTNCAAATCTTCTTTTTCTTCCACTGC
CCTAATCCAACCAAGCGTGCTGAGTGGTATATTTNTTTTCNANAACCCATTGACTNTCCTTCTTTC
NGCAACTAGGCCAATTTTCTCAGNTCCTCT

SEQ ID NO: 2092 ACTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCAGAAAAATAATCCGTTTAATTGA
AAAACCTGGAGGATACTATTCCACTCCCCAGATGAGGAGGCTGAGGAGACCAGACCCCTACATC
ACCTCGNATCCACTTNTGATACTNTTACGAGGCANNAGGCAANACANTTCCCAAAACCTCNAC
AAAANCAATTCCAAGGGCTGCTGCAGNTACCACCAGCACATTTTCTCAGCCANCCCCCAATNTT
NTTACACAGNCNTCCTTATGGGATTGCCTTCTCGTANAATAAT

SEQ ID NO: 2093 ACGAGGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAACTA
TCNACAGGCATGCCTCGGAGATCACGTTTTGATANACCACCTGCCCCAGCTNCCTTNGATCCAAAT
GATATATGCTATGANTGTGGCNAAGGNCATTATGCTTATGATTGCCNTC

SEQ ID NO: 2094 ACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACTTCTCTACATGGCA
ATAGATGGAGTGGCACCACGTGCTANAATGAACCAGCAGCGTTCAAGGAGGTTTANGGCATCAAA
AGANGGAATGGAAGCAGCANTCGANAAGCANCAAGTCAGGGAAGAAATATTTGGCAAAAGGTGG
CTTTCTTTNTCCAGAA

SEQ ID NO: 2095 ACTGGCCTGCTGCTGGCCCGCAGGCTTCTCAATAGGTTTGGCATGGACAAGA
TCTATGAAGGCCAAGTGGAGGTGACTGGTGATGAATACAATGTGGAAGCATTGATGGTCAGCCA
GGTGCCTTCACCTGCTATTTGGATGCAGGCCTTGCCAGAACTACCACTGGCAATAAAGTTTTTGGT
GCCCTGAAGGGAGCTGTGGATGGAGGCTTGTCTATCCCTCACAGTACTGCGATTAAAAAAAAGC
ACTTCTGCAAAGGAACCATGTTCCAACACCGCAAACAAGGTGTTCTGCTTAAACAGAGTAAGATC
ACCACCCCATCCATCCCTTNCCTGTTCCCTCCACTTGATTGTGTCAATCCACCAGTGTCTGGT
GGTAGGGATGCTCAGCCACCTAAGGCAAGGATNCTTGGGAGGTGGAAGGCTTGCATGNNTNANCA
CACCAAACTGANCGCAAAGGTCACTGCTCATCTAAATCTCTGGATGTTCTCCGAAACATCCCAT
NANTCCAATGCAGGGCCTGGTTGTCNTGTCCGGT

SEQ ID NO: 2096 ACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCTGGCAGCGG
TGGCTCACATGGCCTGTCTGCACTGTAACCAAGGCTGGGATGTAGCCAGGACTTGGTCTCCTTGG
AAGACAGGTCTGATGTTTGGCCAATCCAGTCCTTCAGACCCCTGCCTGAAACTTGTATCTTACGTGA
ACTTAAAGAATAAAATGCATTTCTACCCCGATCTCGCCCCAGGA

SEQ ID NO: 2097 ACAGGGAAGTGTGAGGAGAGCAGCACCCAGGAACCCAGCCAGCCAGCATG
CCCCGTCTGACGAATGACAGGAAGATTGTTGAAGGCCATGAGGGAAAAAATAAACCCAGCTCT
GAATCACCTACCTTACCATTCTGTATATACAAAGAATTCTTCGGAGCTTGTCTTATTTGCTATAGAA
AACAATACAGAGCTTTTGGGAATGGACTCACTGATTTTCAGTCTTTTCCATCTCTTTCCTCCTAGAC
TCTGTGATCTGAGGGTATAAAGACATGTCCACCANGTCTGAGCCCTCAAATGTCTGATTACAAT
GCTGGCTGTCCAATGCCTGTTCAATAAAAGTAAACTCAGCAGAACACCCATNTTNTTCTTAT

GNTTTNATGTTTTNTTNAAAANTGTTTCNTTGNCCGNACCCCTAAGGGCG

SEQ ID NO: 2098 ACGCGGGGACGTCGCTTTTTGATCCTTCGATGTGGGCTCTTCCTATCATTGTG
AAGCAGAATTCACCAAGCGTTGGATTGTTACCCACCACTGCCCTGGGAAAAAAAAAAAAAAAAAAAA

SEQ ID NO: 2099 ACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCA
GGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTTTCTCTTTGAAAGATAGAGATTAATACAACCTAC
TAAAAAAATATAGTCAATAGGTTACTAAGATATTGCTTAGCGTTAAGTTTTTAACGTAATTTTAA
TAGCTTAAGATTTTAAGAGAAANTATGAAGACTTAGAAGAGTANCNTGAGGAAGGAAAAGATAA
AAGGTTTCTAAAACATGACGGAGGTTGANATGAANCTTCTTCATGGANTAAAAAATGTNTTTAAA
AGAAAATTGANAGAAAGGACTACAGACCCCGAATTATTCCCAATAGAAGGGCATTGCTTTTGA
TAAAANTGAAGGTGACTTAAACANCTTAAAGTTTANTTNAAAAGTTGTAGGTGATTAAATAATTT
NGAAGGCNNCCTTTNAAAAAANANATTAACCCGAAGGGTGNTTAAAAANAACCTTGAAATCNATTG
ACNCAGGGAANAATTGCGTNATTTAAAGCCTANTTACNCCTTTTACTTAACNCNNAACAAAATNG
GAAANATTANTTGGGAAGTGGTAGGATNAAACAATTTGGAAAAAATTNAAA

SEQ ID NO: 2100 ACTCTCTGTCCACGATCATGGNAACCATCCAGTCCTTGAAGCGGCCAGTGAA
GAGCTCCAGGCGTGCGGTCCAGGTCCCGGTTACCGTACCCTTAAAAGGGGACAAACGAGTGCCCAT
TGAACACACATTACAGCTGCCACAGGGGAATTGGACAGTATGTGTCCANAGACCAGCGGNGTGA
GAAGAGGAGTCCCNTCCTNTCCAGGCACAGGTAATANATCCTGATCCCCAAGGACGAGGCATGGC
TTGCTGTACACAATGAGGGTAGGAGGAGTTCGTGTGGAACCCATGGATCCCCCTTGGGGGCGCTTCT
NTTACCCTTGTCCCAT

SEQ ID NO: 2101 ACATTCACATTTTAATAAATTAACCACAAGAAAATAATCCCACATATACAA
GGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATACCCAGTCTGGTTTTTTTTTTTAAAT
GGGGGTAAAAATCAAATGCAACCCCATCTTGTTTTANNAATTTTGAAAATAATAATGCCCTTA
ATGGNCAGNGTTCCTTTCAAACATGTGAGTTCTTTAACAAAAATGAAATAAACNGGTGTCTGNG
ATTTCTAATTAATCACCGNTGGCATTACACAGGTTTTGTTGTTTGGGGTGGGGAGGGGGCTTTTG
TTCCCTTTGCATAATATAGTCNATGCACTAACAATTATGTATATTCAAACCTTGATTATTTTAAATT
CNAT

SEQ ID NO: 2102 ACTTCAAGGAGAATTCCCACCACTGGAGCTGGGCTGTGCAGTGGCTACAGAA
GAAGATGTCAGAACATTACTGGACACCACAGAGTAATGTCTCTAATGAAACATCAACTGGAAAAA
CCTTTCAGCGAACCATTTCAGCTCAGGACACGTTAGCGTATGCCACAGCTTTTGTTGAATGAAAAA
NANCAATCAGGAANCATTATTGGGTCCGGAGAGTATTCCTGCCAATGANACCGGANACAGGCTTC
TACAGCAGGGTTNAAAATCTCCCNATGATGATTGTTGAGTTGAGAAAGTGNCCTTGNTGATGTTGATC
CTTAGAGGAATATNCCANCCTGAAAGGAGTAAANACNCATTACTGANTGCTCANCACCTTNTTG
GANTCAAAATTTTCGAANCCCTTTGAANACCCTGAANNTTGGANTGGAAACNTGCTGNNACTTGG
GCCGATCGTGNTNTTCTCAAGGAAACCNTTTTAAANCCNCTTAAAAGGTTTGGGACCTTTTGGC
AGTGGGGGAAACTCCGCTTTTGGATCACTTGCCCGGGACCGTNGGCTTTTNTTGTGGNTTNCNATT
TTNGGGGAATTTTCGNAAATAAACCCCGTGGAANTTTTTTTTTTCCCAACTTCANAA

SEQ ID NO: 2103 ACGCGGGGCTTTTCCCGGTTGCTGCTTGCTGTGAGTGTCTCTAGGGTGATA
CGTGGGTGAGAAAGGTCCTGGTCCGCGCCAGAGCCCAGCGCTCTCGTCGCCATGCCTCGGAAAA
TTGAGGAANTCAAAGGACTTCCTTGCTCACAGCCGACTAAAGGATGCCAAATCTNGCNAAGATC
AAAAAAATAAGGACANCGTNGAATTTAAAGTTCCAATNCANCANAATACCTTTACACCCTGT
CCNTNACTGNCAANAGAAAGGCANAGAAACTNAACCAGTCCNTTGCCCCCGNTTGGNCANTGA
AGGACTTGAATTGAACNAACACNCTGNNTGNACCTGTTTTATTTTAAAATNCTAANAATCCNT

SEQ ID NO: 2104 ACTTACATATCCTACATTTGACTACATTATTTCCAAACCAAGTATTCCATCCA
AAGGAACATACTGCTATAATAGAGACCAAGGAGGGACTGTTAAGGTTGCCAAGGTGAAGCGAG
CTGAGAGGCTTTGTCTCATGCCAGTAACCTCTGAAATCTCTCTTAATTCCTGCTGTCCAGGCAGNA
GATTGCCATGGTTTCCCAAGTAGGTANCTGCTTAANCANTTAAAGCCCAATTGTCTGTTCTGTTG
ATNAAAGGTCNTGAATTTNTGAAGNNGGTGTTAATTCNNGNGGACTGANTNAATCCCTNNNA
NTCCTTNTTGGTAAAGNGTGGCTAATAAAAAANAATCCNCTTNAAGGCTGNAAAAANANACCNG
NCCTTAAATTGACCAACTTAACTGAATGGGCNTNAGGAAAGTTTTTTNGCNANCTGCCCTTGGNAA
AACCNTCNTTCCCCCAGNTGGNTGCCTTGNANACTNAANNNTAANAATGGCCAAAGCCTNTN
NTCTTAAAAACAGGAAATCCAAGGGCTGGNTTAANGNCTGNGNAANACCTGTTTGGATGAAANT
TAACTTAAACCCCTTNNATAAATTGGGGGAACCCCTAAAAAATAAAN

SEQ ID NO: 2105 ACAAGTCCTTGATAGTCTCCTGCAGGAGCGGGTGAAGACTCATGTCTGTCTCC
GTCTTCTTGATCACCTGCAGTAGCTGCACGTGTTCCGTGACAACTCTGTCTGAGGTCTGTCAATTTCT

GGAGCAGCTTGGCAAACAACCTGTGAGGACTCAGGGNGGTTAANC'TTNAGCTGGANCTCCAGGGCT
GGTACNAGGTTGTCTTGANTGTCTTNAATGGGCTTNACNTTNAGCAAACCTGGNCGGNTCNANTG
AAAATANTGNCNGCATTAAATATTGCCAAGTCGTTGCTTNNAATTCNAGGNATTGAACCTTNACAG
CAAACCAAAACTTGGCTCAATAAANTCNCCAAAAGNCTTTNNAGGCTTTTAAAAACTCCCTTGNA
TAAANCCTGNCCNTCGAATTTNAAAACCCNATNTTTNTATTAAAGGAGGCCACATTGNNNAAATG
ATNTNNGGGACTCAATTTTTTNAGGAAAGTACTTGGTC

SEQ ID NO: 2106 ACGCGGGTAAAGATGTCTTTTTTTTATTTTACTTTTTTTTAAAGCACCAAATTTTG
TTGTTTTTTTTTCTCCCCCTCCCCACAGATCCCATCTCAAATCATTCTGTAAACCACCATTCCAACAG
GTCGAGGAGAGCTTAAACACCTTCTTCCCTCTGCCTTGTNCTCTTTNATTTTTTATTTTTTCGCATCA
GTATTAATGTTTTTGCATCTTTTATTNAAAAGNGTAAACTTTCTTTGTCAATCTATGGA
CATGCCCATATATGAAGGAGATGGGTGGGTCAAAAAGGGATATCAAATGAANTGATAGGGGTCA
CANTGGGGAAATTGAAGTGGTCCATAACATTGCCAAAATAGNGTGCCACTANAAATGGNGAAAA
GGCTGTCTTTTTTTTTTTTTTAAAAANAAAAGTNTTACCATTGTNTTTGGNNAGGCAGGTTNACAAC
CCTACAAGTCTTGANTTAANAAGGAANGAGGGAAAAAAAAGAAAAANCCCCNTCCCATATTAAAA
AAAAAAACCANNCTTGTTTAGGAGTNCATTNAAACCTNAGGACNTTTCNCTATTCTNATGNAAN
TGAACNTGGGCCGNAACCCNCTAANGGNNTTTCNNCCNNANTGGNGGCCGNNTNTATGGAATC
CAACNN

SEQ ID NO: 2107 ACCATCTCAAAGCTAGATGCTCGAATCCAGCAAAAAGAGAGAGGAGCAGCGT
CGAAGAAGGGCAAGTAGTGTCTTGGCACAGAGAAGAGCCCAGAGTATAGAGCGGAAGCAAGAGA
GTGAGCCACGTATTGTTAGTAGAATTTCCAGTGTTTGTGCTTGAAGTGGGTGGAAGTGTCTGGT
TTCAGTCTCTTTTGTGTTTTATCNANTTTTATTTCCCTGGCTTNAGTCGGNNAACAGCCCNATTTATCG
GGGACCTCACTTCNNTGAANAINTTTGGTCNTGGNTTGAAATTNTCCNTNNCNTAANTTTTAAAN
NGTTTTTGGGNTNCTCCCTTTGNTTNGNGTTTACAAAAA

SEQ ID NO: 2108 ACGCGGGGAGCTGGAGTGCCTTCTGCCGAAGCTTGTGGTTGCACGCCCATCG
TCTTAGGGGCTACCTTCCGTGACCATGTCCAAGTCTCTGAAGAAGTTGGTGGAGGAGAGCCGGGA
GAANAACCAGCCCAGGTGGACATGAGTGACCGGGGCATCTCCAACATGCTGGATGTCAACGGCC
TCTTTACCTTATCCCATATCACACAANTGNTCCTNANCCATAACAAGCTAACAATGGTGCCACCGA
ACATNGNAAAACCTGATNAATTTTGNANGTGCTAAACTTTTTTTAATAAN

SEQ ID NO: 2109 ACCTAACCAGCTAGTGTGTTTTCCCAATTTCAAAGCTACTCATTACTGTTC
AGTTTCCCTTTTCTATAACGTTTCTTCTTTTTTAAACTCTTAATTGCTAGTGTGCTAAATTTAGCAAA
ATATCTAGTAAATAAGAAAAATGAACAGGGGGTCCATATGGGAAAGTATTCTGGCTCTGAGAACT
TCTAATAATGCACAATCTTTGGATTATGGAGACGGNCCTGGTAACTTNAGAGTGAAATATGAAA
AGAAAGGTTTATTNCTCTTCCCTTTTCATTAAGGCTCTAAAAAACTTTTTTCATTAAAAATATAAAT
TACAAAGAGACAACCTTCGCCAAATNTGTAAANATAAATCTGCCANAAGTTCCACAAAACAAAATT
ATTGAGTTTTTNTTGTACCTTTGAAACCAATCATAAANTTNTTANGATTACCCCGGTNCCTTG

SEQ ID NO: 2110 ACCCAAGGATGTCCTGGAGTATGTTGTATTTCGAAAAGCAGTTGACAAACCCC
TATGGAAGCTGGAGAATGCATACCAAGATCGTTCCCCCATGGGCACCCCCTAAGCAGCCCATCCT
TAAGACGGTGATGATCCCTGGCCCTCAGCTGAAACCAGAAGAAGATATGAAGAGGCACAAGGG
AGAGGCCCAGAAGCCTCAGCTAGCCTGATGACAAAAATGACTTCTAGGGGTGAAGCCTGGGTGAT
GAGGCTGCTGGAAANCTTGAAATCTCCCTTTCCCTTCATGCTATAAAAAGAACTACCTTTTGTTCTC
TCCATCTGCTCAGGTCTTTTTACCAAGTCTNATATTCAGCACCATGACTGGTTGACTGGGCCCTAN
CANGGTGGGCAGGTATAACATGGGCATTGGACAATTTTCTTTTTTAAATTTTATTGNTAGCTTCTT
GANTCTAAGATGAAAAGACANNTNTGTTTTAAAAAAACATTGGATTNTAAGTTTTTNNCCACANC
ANGGGACTGTGAGAAACACCCAGCAGCNTTCTNTTTTGAATCAACAGGGCAGGGGATCAANANT
TTGNAATTTGAATGTTGNCAGGGGTGTNGGAAAATTTTNGNTGAGTTCTNCACATTTCCCTTGGT
TCANGC

SEQ ID NO: 2111 CCGGCCGAGGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATAAGAAACATGT
CATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTCTGGAGAATAAATGCA
GTAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAGTGATTTTAAATGTTTTG
GTGAATGTGAAAACATAAAGTTTGTGTGATGAGAATGTAAGTCTTTTTTCTACTTTAAATTTAGTA
GGTTCAGTGAGTAACATAAATTTAGCAAACCTGTGTTTGCATATTTTTTTGGAGGCAGANTATTGN
AATTAATGTCATAAGTGATTTGGAGCTTTGNTAAAGGGACCAGANAGAAGGAGCNCCTGCAGNCT
TTTGTTTTTTAAACCTNANAACNTTACCCTTGGGTTATTGATTAGNGANGGANCCATTATGAA
ACATCTGGGNNTTTGGAACAAGTGGNNNTTTTACNTTCNTNTGCTGAACCTNAACAAAACCTGNT
NNTCCNTNNAACAGGNACAGGTGGATGCATTC

SEQ ID NO: 2112 ACGCAGGGGTATTTGAAAACCTCAAGGTTATCCAGATGTTCCAGGTCCTCTGA
ACAATCCAGACTACCCCGGCACCAGGAGCAATCCATACTCTGTAGCCTCCAGAACACGTCCAGAC
TATCTGGGTCTCTGGCAGAACCAATTATCTAGATCTCTGAGTAATCCAATATTCTGGCACCA
GAAGCAATGCATACTCTGCAGCCTCTAGAACAAGCCCAGACCTTCCTACCTTTCTACCAGAGCCAG
AATTATAGTGAATTCAGAGTCATTCCTTACCACCGAGCATCATCCANACAACCAGACTACCTGGA
TCTCAACGAATTCCTGNTTTTGGCAGGCTCCANCANCAAGTGGNAACTATGCAGGCTCCAAACAC
ATCCAGATATTTNGGTCNTAAAACCCGGCTACCCTGGAGCTCAANACCACCTTTTGNNTTCTGGAC
CAAGAANCCATTTGAACCTTCCAGATCCANAAGATCTGGACATNAAGTTTAAAAATCATCCATNCC
ANANTCTTTGAAAAGCTGATNNTCCAGGCGCTGACTTCAACCTAACTNTTNCCTTTTNGGGGAG
CCAACTNTCCAATGCTGAGGNAATCANAATTTGCAAGCCCTTGGANANAACCTTGTTTNTCNAAT
GGCTGANA

SEQ ID NO: 2113 ACCGCCAGCTCTCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAA
GCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGGATTTCGTGTTCCGCCGTGG
TGCCCGAAAACGCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGTGTTAACC
AGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGANCGAGCTGGACGCCACTGTGGGGCT
CTGAGAGTCCTGAATTCTACTGGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTC
ATTGATCCATTCCATAAAGCTATCAGAANAATCCTGACACCCAGTGGATCACCAAACCATTCCA
CAGCACANGGAGATGCGTGGGCTGACATCTGCAGGCCGAAAGANCCGTGGCCTTGAAAAGGGC
CANAAGTTCCACCACACTTTTGGTGNCTCTCNCCGGGCAANTTGNAAAAGGCGCAATACTNTTCA
GCTCCACCGTTNCCGTTATATAANTAAGTTNGNAAAATTCATACTTNATAAAACANTTAAGGA
CA

SEQ ID NO: 2114 ACAGTTCTTTCCAATCTGTGTCTTGAACCTGACAGTATTGTCTCGAAAATCA
CGCAGATATNNAACCTCCACAGGAGTGGGTCATTTGAAGCAGTAAAGAGGTCACGACAAACCGC
AGACAAAGACAAGACGGAACGAACATCCAGAAGTCGGAAGATCCGTAGTTTCAGTTCCAATGGG
AGGACGATCAACCCAAATACATCTGGTAGGTTCACTGCTTGTTCGGGTAAAAGCCAAAAGAGGATA
CACCAGCTGGTCTTTAAAGAGGCGAGAGAGTTCTGAAGATCTTTGTATATGTTGGCTACATTTCC
CCTAGTTTCTCTTTGAAAATAAAAAGATTCTGGGTAGCAAGCTGGNAATCTTTTTCACACTTCTAATC
TTAATTGNTGATTTTAAAGTGTCCATTTACAACAANTCAGGTTTCCCAAAGGCACCCANNTGGAN
ANTANCNGGATCTGCCCTTTCATAANAGGATGCTTGTACCTTGTCGGGGCNGCCTNTTNAANG
GCAAANTTCAA

SEQ ID NO: 2115 ACTCAGTAGTGCCCTGCTTCTAGGGCTCTGAATACGGGCTTAAAGTCATCTTG
TCCTGCTGGAATTTGCTGTGCAGAGCCATAAGCCTCCCATTTTGTAGCGTCAGCTAGGCCAATAG
GAACAGACCGGGACCTTGTCTCACACTGATGATACCTCACATGTTGACCGGCTATGTGAACCTGCCT
ATTTCCCTATGCTGGAGTTTTGATTTTAACTAACGCAAATCTGTAGATTCTCTCCTCTCCAATCCAA
GAAAACAAAACAAAATAATGCTTTTCGAAATTGTTTCTAGGACTTTAAAACATAATGGGTATATCC
AAAATTCTTTATTTTCAAGATGCAACAATAGATTCCATTATATAGACTCAGATCAAAACAGCATAC
CTGCTAAGCTAANATAGATGGTGGTTGATTCCACTGGGTTTGGATCAATCAATAACAAACCTTTTC
CTTTGACATACTCTNAAATTTTGTGTTTGGGGGAGGGNGTGTGTGTG

SEQ ID NO: 2116 ACATTGACAAACACATAACTGAGGCATTAATACCTCTTTATAATAATGCAAG
TTGAAATGCTAACAAAGCATAAACACTTCTGCAAAAATTCACAAGGCACAGTTGTTCAATCAAC
AGAAAAAGTCAAAACCACTTGGTTTTTAAATGAAAATCCTTCACATCCACCTGTGTTCAAAATATT
AATAATAACTTATGATATTAATAACTTCCTTTAAAAGCAATTACCACAAAACAGCTAAATCATAA
GCATGAAAAGACTTATTTTCTACTATGTACCTTAGAAAGAATAGATNCCCATGGTCATTATTTT
TAGCATAAAGCTAAGCTACCAGAAAAAACHTTAACAAGTTACGTGTTTTCCATTTGCAAAATGGATC
TCAGCTTGCTTAGACCAGCNCCCATTAACATAANACAGANNNATTGTCCTTCGNCCNGACCACCTA
AGGCGATTCCAGCCCTGGCGGCGTT

SEQ ID NO: 2117 ACTAGAAGTATACACCACCCAGCCCGGGGTCCAGTTTTACACGGGCAACTTC
CTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTTTCTGCCTGGA
GACTCAGAACTGGCCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGCTGAGCCTGGTGAG
GAGTATGACCACACCACCTGGTTCAAGTTTCTGTGGCTTAAGGAAGTGTGAAGATATGATCCAGT
CCAGGGCTAGGCTCACCACCTGTCTCCTGTGAGAAAAAGGTGAAGATTAAAGAACTTTCAAAATG
ATTCTATGGATTAAAATCATACAAATGGGGGCTGTTCTGAAAATCAGTCTGGGGATTGATTCCNT
TTNCAGTGACTGGCTCCAGCCATGTNTATGACCAGCTNAAATTCCTGTGCAGTTCAAAAAAGCAAG
TGAACCAACCAACATGGTCGTCATCTAACCTTGACCTTACCAGGGACTCCANTGCTGGTGTGGC
TNCATNTTINCAACTGGCTTTTTTNTTTTNAACCTTTTGCCTTTCTTTTNTAAANCTATTCTNACAT
TGNTTTTATTTCTCCTCCTCNTTAACNTCAACCATTTGTNANCANNACTNTNGANTTTCAAATGNTANA

TTTACCT

SEQ ID NO: 2118 ACACCTTTTCAGGGTCGTTAAAGACCACCTCAAAAGACTTGATCTTCTTGAAC
ATCACCATGATGGAACCTGAGTTGGTTTAAAGAGTTAGAAATGACGGTGGAAGAAAAAAGCTC
CAAATCGAGGAAACCCCTTTGCAAAAAAATTATTTCACTTTAAGGAATTAAGGTATTCTTAAGCAGT
TTGAGCTTAAAAATAAAATAAGATTTAAACAAATGAATNTTAACTACTAGGTTTTCNAAAAGGCG
CCTAAAAAATATACGCCGTTGGTTACACTAAGCCNAATTCAGAGAAAAAGCCTTTTTCCCCCAAT
TGCTGGAaaaaAANNATCCCGTCTCACAANCACTCCTTTGGAGAAAAAAGAGGGGTTNGTTNCCCC
NCNTACCTGNCCGGGCTGTCCTTTTAAATGGGCGANTTTCAACANACCGGTGNGNCGGTACTTAG
NNGNTCCNAACCTTTGGTTNCAANCTTGGNNNTATNNNGGACATNCCTGNTTACNTGNNNA

SEQ ID NO: 2119 ACAAATTTACATTTCATGAGGAATGTTAAAAAATTCACTAAAAAACCCAC
TTTTCTGTGACCCATAATCCCACATTTACAGTGCAGGGGAGAAGGGGATTAGGGGGCATCCAA
AACAAAGTCTCTNCCAAAAAGAAATGATGTAAATTCACATTCCCTCTCCACAGGATCCAAATGG
NGAGAGTNTAATTTACAATTCATCTTTTTCAGCTGTANATTCCTTTGCTGNTTCTTCTTCTCATCTG
NTCCACATCCATTTCTTNATNTTNGTCTTTGNNTGGGNCTTCCGTTGGGGCTTCTGGTGGCTNTTCA
AGGTCTTTTTNGGGCNNNTNNTTCACCCTTGNANCAGGGGCAATGNTCNAACTGNNNGNNAAC
ANTCTTTCTATTCTATCTCCATATGCNTTAGGNCTGGTAAAAAGAATCCCNTGACGAAACTT

SEQ ID NO: 2120 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCAT
AGGCTATCCCACACCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAG
AGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATNAAGATGATGAAGAAAAAGCCCAAGATCGAAG
ATGTGGGTTCANATGAGGAGGATGACAGCGGTAGGATTAGAAGAANAACCTTAGAAGATCNAA
GAGAAATTCCTTGATCNTGAAGAACTTTACCATGACCANGNCTTTTTTGGACCATTAAACCCTTGTT
GANATTCCCCCAAAAGGNNTTNTNGTGAATTCTACNANGACCTCACTTNTTGNCTTGGGAAGACC
NCTTCGCATTC

SEQ ID NO: 2121 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGAATGGAGTTTCACTCCTGTTGCCAGG
CTGGAGCGCATGGCGCAATCTCGGCTCATCGCAACCTCTGCCTCCTGGGTTTAAAGCGATTCTCCTG
CCTNAACCTCCTGAGTAGCTGGGATTACAGGNGGCTGCCACCACCCCTGNCTAATTTTGTATTTTT
AANAAAGGGGGGGTTTCTCCATGTTGGNCANGCTGGTCCCNAAATCCCGACCTTANGGGANCCNN
CAGGAACAATTTTATAACNTNATTAATTAACNGGCATATAATNAACCTNNACNNGATTNATTTTTT
CCAAATTGNCCCCAAAATGCATTTTA

SEQ ID NO: 2122 ACCAAGGGATGGAAGAAGTAAATATAGCTCAGGTAGCACTTTATACTCAGGC
AGATCTCAGCCCTCTACTGAGTCCCTTANCCAAACANGTTTCTTTCAAAAAAGCCAGCANGCGAA
AAGCAGGGACTGNCCCTGCATTTTCATATTNCACTGNTAAAAGNTGGGTTTGAATTTTATGTTTA
NNTGCACAAATTGGGCCAAAAAAACATTGCTTGANGAANATTGANTGGAAAAATCNAGAANGN
ANAAGAATAAATACCGNTTTCTGNCCAAAGANATGNTTATAGNGCCCTGGAAATGNTCCTTTCTT
GNANNCTTNGCAGAATGCTTANGGAGANNAAGTTTGANGNAAACCAACAGGAATTTCTGAATTN
ATCACA

SEQ ID NO: 2123 GTACAATTCATCTAACTTCCGGAAAGCACTTTTCAGTCCAAATGCANAAACCG
TCCCACATGCCACCAGGAGCAAGCTTCAAAATGTTTCAGCTTGCTTACATTAAGCAAGAGTAATTC
CAGGGATGTTTCTGAAGGCCCTTGNTGATACCATTATCCTCANTTNTAANATGATGCACNGGCCCT
TGCGCTNGATACCGGNACNGATTTTNTATTTGCTTTGNCAGCNTCTCATTNNNTNAAAGGCATT
TANCTTTTTTGATANCAATTCAGCTTTAAGTTTTCTTAAAGNAGCNAAAACACTTTTCATTGGNT
NTTATTTNGANCCTTNAACCTTATTTTTT

SEQ ID NO: 2124 ACGCGGGTGGCTCAGAGCACCCGTATCATTTATGGAGGCTCTGTGACTGGGG
CAACCTGCAAGGAACCTGGCCAGCCAGCCTGATGTGGATGGGTTCCTTGGGGGTGGGGCTTCCCTT
AAACCCGAATTCGTGGANATTATTAATGCCAAACAATGAACCCCATCATTTTNCCTTACCTTTCTG
CAAGCCAGGGACTANCAACCCAAAAACCAANAACCTGCCCTTTCCTTCATATGCTTTTGATGGNG
GCATCTGCTCTTCTGGGGGCCCTATCCAACTGGATCTTCCCTTACTGGTTATATCTTCACCTTGA
ATGTTTGGGACCAAAGCCAAATCCCTTNTTCANTTACTTAATGGGTGGGAACCTAACCTGACCAAAG
GNGGCTTNTCNTGGCTGAAAAAATGGNAAGGCGTGGGGGGGAATTTCTTCCCTGGGTTCCTCTAA
GGCCTAATGAAGGGCAAAAAAACCATTCTTNTCTTTTACAACCGGGAAGGGCAAAA
ATCCCTTNAANAANAAAGGANTTGCTTGCCCTTTTCCANTGGGGCCCGCCCTTTTGTCTNTGTTT
GTNAACCCCCATNTNAGGGAATAAACCTGGCACTTGGACAA

SEQ ID NO: 2125 ACAGACAGTCCATCTCTGTTCTGGCCGGGTCCACCGTGGAAGATGTCCTGAA
GAAGCCCATGAGTTAGGAGGATTCACATATGAAACACAGGCCTCCTTTGTAGGCCCTACTTAACC

TCCGTGATGGGGAAAGCGGCCGGANAAAGGGAGTTCTGGCAACTTCTNCGAAACCCCAACACCCC
 ANTTGTTGCAAGGGATTNCTGACTACCAACCAAGGATGGAAAAACATTGANCTNAGGCTGGTT
 AGCTNNGGTNNCCCCTGACTTCTTATTCCANAANCTTGAACACTCCTAGGNTTTTTCCCTNCCTTCTT
 GANNTCCCTNGANAAGAACTTGNCTGACCTNNTGNNACTTCTGNGNACTTGAACNATGCCCCC
 TGGGANTCACCCCANCCCCAANGCCCTTTTGGGGNCCTATTCCATTGGCCCNCTTTGGANCAAAA
 AAACCAAGCNTTTTCTTNGGAAANTTTTTTGACCAAATTTGGCNAANCTNNGCCCTTNAGGTTT
 TCCATTANAGCCCCNCCCATTGGGCTNANNGGNATNAAACANTTTAAAATCCTTGGGAAAAAAN
 GGAATCCCAAGGNCCAAGTTTTNTGNAAAANCCTTCNTTNTGGNGNTGGGGNCCCNNTAAAAAA
 AGCCTTCTN

SEQ ID NO: 2126 ACGCGGGGAGCGACAATATTGACTCACGCCTACTCCAGAGTGGTCCTGAGAG
 TCCTGGAAGCAGCCGTGGCGGCCAAGAAGCGATTTAGTGTATACGTCACANNAGTCACAGCCTGA
 TTTGTCAGGTAAAGAAAATGGCCAAAGCCCTTNTGCCACCTTAAACGTNCCTGTCACTGNGGTGCTA
 GATNCTGCCTNNNGCTACATTCATGGAAAAAGCAAATNNTGTCATAATTGGTGCTNAAAGAGTT

SEQ ID NO: 2127 ACCGCAAGGGAAAGATGAAAAATTATAACCAAGCATAATATAGCAAGGGAC
 TAACCCCTATACCTTCTGCATAATGAATTAAGTAGAAAAATACTTTGCAANGGAGAGCCCAAAGC
 TTAAGACCCCCGAAACCAGACGAGCTACCTAAGAACAGCTAAAAGAGCNCCCCCGTCTNTTGTAG
 CCAAATAGTGGGAAGATTTATAGGTAAAGGCGACNAACCTTNCAGCCCTNGTGATAGCCTGGT
 TGNCCCAANATANAATNNTANTTNAACCTTTAAATTTGCCNCANAANCCTTNTAAATTCCTTGGT
 AATTTAACTGGTANNCCCAAANNAGGGACNACNTTTTTTTGGACCTTAGGAAAAAACCTTGGTGA
 GG

SEQ ID NO: 2128 ACTTGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCA
 GGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCATCCCTGC
 AATGATTAAACACCAAGGGAAGGCTGCCTTCCCAGTCTGTGACCAGCGCCGGAGTTTTGGGTCCA
 CGGATAAAACGTGTCTCTTTTGTCTCTACCAGAAAATGAAAGGAATTGAAATTAAGAGGAGGGAG
 AGATTGAAGTGAATGGCCAAGATTGAAAGGAGAAAGTGGTTGAGGGATAGTGAAGGGAAGTTG
 GAGAAGAGAGTAAAAAGAGCTGCTTACCAAATTGAAATTTGGTGAGATGTTTCTTGGGCTCGTCG
 GTCTNAGGACCTGAGGTC

SEQ ID NO: 2129 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCGGGAGGCAANAGGACCAACCC
 TCCAAGTCCCGGGGCCNTGTCCACCCACCATATCCTAAACCCAATCTTTTCTACCTNTTTGTGAC
 ANGTTTACAAACAGAGAGGCAAGCAAANAAGGNTGGGGCCCAACGGAGGGGANAAAAATTATAT
 CCCGGGAAACGTGGGGCAACAGCATCATANACTTGAATGAACCCAAGGGCCAAGCAGCCAAGCA
 AGGACTAATTCANAGCACTNAAAAACCTTANTTAAACCGGGGGGCCCNCTGTGCTAAGGACATG
 GCCGGGGCCCAACCCNCTNTTATAGGGTTACANANAGTCTGGAGTCCACGTCACTAAAGTNTAA
 AATTTACTCGAAAATGAACCCCANCTCCCTTTTGANANATGAATCGGTTACTTCAACACATGAG
 GACAGATCATTTACATAAAACCCCACTCTCTNTTCTNTTCTNTTTG

SEQ ID NO: 2130 ACGCGGGAAGAAGTGTTTCGGAGAGATGGAAGACCATGCCTGCAAAGGAGAA
 GTCGAAGTTTGAAGATATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTAC
 NGTTCCTCCCAAAGGTGATAAGAAAGGGGGAAGAAAANAGGCCCCCAATGCTCCTTAANAGGCC
 ACCATCTGNCTTCTCCTGTTTGGCTCTGAACATCGCCCAAAGATCNAAAGGTTGAACNCCCTGGC
 CTATCCCNNTNGGGGATTCTTGCAAAAGAACTGGGGTGNAATGT

SEQ ID NO: 2131 ACCTGGATGAAGCATACCCAGGGAAGAAGCTGTTGCCGGATGACCCCTATGA
 GAAAGCTTGCCAGAAGATGATCTTAGAGTTGTTTTCTAAGGTGCCATCCTTGGTAGGAAGCTTTAT
 TAGAAGCCAAAATAAAGAAGACTATGATGGCTAAAAGAAGAATTTCCGTAAAGAATTTACCAAG
 CTAGAGGAGGTTCTGACTAATAAGAAGACACCTTCTTTGGTGGCAATTCTATCTCTATGATTGATT
 ACCTCATCTGGCCCTGGTTTTGAACGGCTGGAAGCAATGAAGTTAAATGAGTGGTGTAGACCACA
 CTCCAAAACCTGANACTGTGGATGGCAGCCCATGAAAGGAAGATCCCCACATGCTCAGCCCTGCTT
 ACTAGTGAGAAAGACTGGCAAGGGTTTCCCTAGAGCTCTNCTTACAGAACAGCCCCTGAGGCCTGT
 GACTATGGGGCTNTGAAGGGGGGCANGANTCAACATTANAACCTTNGCTGATATTTTCTTCTCTTA
 NCAAA

SEQ ID NO: 2132 ACGCGGGTATCTCTGTTGCTAAAAATAGATCCTTTAGCACCTTTGGATAAAGTC
 TGCCTTCTAGGTTGTGGCATTTCACCCGTTATGGTGCTGCTGTGAACACTGCCAAGTTGGAGCCT
 GGCTCTGTTTGTGCCGTCTTTGGTCTGGGAGGAGTCGGATTGGCAGTTATCATGGGCTGTAAAGTG
 GCTGGTGTCTCCCGGATCATTTGGTGTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTT
 TGGAGCCACTGAATGTATTAACCCTCAGGATTTTANTAACCCATCCAGGAAGTGCTCATTGAGAT
 GACCGATGGAGGAGTGGAATTTCTTTGAATGTATTGGTAATGTGAAGGTCATGAAANCAGCAC

TTGAGGCATGTCACAAGGGCTGGGGGCGTCAACCGTCNNGGTTGGAGTANCTGCTTCAGGTGAAN
 AAATTNGCCACTCGTCCATTCCAGNTGGTACAGGTCCACATGGAAAAGGCACTGCCTTTGGAGGA
 TGGAAAAGTGTANAAAGTGNCCCAAAACNTGGNGTCTGAATATNTGCCAAAAAGNAAAAAANTT
 GAGAANTNGGGACTCACAATCTGGCTTTTGAAGAAATNAA

SEQ ID NO: 2133 AGCCGGCCGCCGGGCAGGACATATTAGGCCTTTTATGAACACTAAAAACAATG
 AGGAAATGTTGGTCATGGGGCAAAGTATCACTTAAAAATTGAATTCATCCATTTTTAAAAAACACTT
 CATGAAAGCATTCTGGTGTGAATTGCCATTTTTTTCTTACTGGCTTCTCAATTTTCTCCTTCTCTGC
 CCCTACCTAAAACATTCTCCTCGGAAATTACATGGGTGCTGACCACAAAAGTTTCTGGATGTTTAA
 TTAATATTGNACATTTTGGCTAGTTTTTCCCGAATTTCTGTCTTAGGCACTGTCGCCTTCCCGGGG
 TGAAGGACATCAATGACCATTTGTTCCCTCTGAAGTAGTCGGTTGGTCATGAACCTTTCTAGTGCGGA
 TAGTTACGGNGTCGTTTCATGATGGCGATCTATCTTCAGACAGCCAAGGAGGAAAAGAGCCCCCGC
 GT

SEQ ID NO: 2134 ACAAATAAAATCAAAAAGAGCAGTGTTCTGTTGTATTTCATTTCTGCATGTATA
 GCTTTATTAATTGCTAATGAAAATTAGAACTTTTTCTGGGATCTTCTGACAAGATTTTTAAAAAATCT
 TAAATGCCTTTTCTTCAGTGAAGCCATCTTTGGAGTAGTCATTACTCTCACCTTATCTGCATCTT
 GACTTCAACCTGATATTCTCTCTTTTGGTCCAGACCCTCAAATTTTAAAAGTAGCTTCAAGTTAA
 GGAAAGGCATTTTCCACAGTTCAGTTCCTGAAAAAATTCCATCTCCCACTGAAAGTCACAGTCC
 AGGAGTGAAGTAATCACATGCTAGAACAATCAGGGCCAAATTGGAAAGTCATTATGAACACTTGCAT
 TGGTCGATCTTTATTTATCACCACAAGCCTGAAAAATGCAATGTCCTGAAAAAGGTGACCTCTCTGTG
 CACACGTAATTTTTTAAAAGGAGAGGGTAATATGAAGGGGACTGAGGCTTGATCACCAAAAATCA
 GCACAATGAAAACAAACCATAATGAATAATGACACTAGAATTCAAATTACCAGATGTTTCAAAGA
 GAAGGGGTGCCAGTTTTTATTCCGTTTGAACACCACCTTTCAAAGAAGCTTTTTTAAATAAAAAAG
 GGTGAGGG

SEQ ID NO: 2135 ACTTAATCTTCTGCTAGGATATTCTTTTTCACTTGTAGTTCACAGATTTCCCTT
 TCTTAATGGATTCACTAGCTCATAGAAGCGAACAGATACATATTACAGGAATAGAAAGCTGATCTTC
 AGGAAAAGCTTTTAAATTTAATATATTGCTCTTCTGTCAACTCAAAGTCACGCAGGTTTCGACGAAC
 ATCTCCAGCTTTTTCTCTTAGCTGAAGATTTGTCTCTTCTAGTTGTTTCTGTCTCAACAAAATGGTTT
 CCATTTCTTGTTCATTAATCTTGATATTTGCTGGCATCTTTCTGTTGAAAAGCCAATTGGTTGCTA
 ATCTCAATGTTAGTAGCTGCTTCTGGTGAAGTGCATCATTAAGTTTCTCCTCCAATTTCTCAATCTT
 TGTAAGATAATCCACTTTCAAATGTGCGATCATCATAGTTTTCTGGGATAGCTCAATTTTTAGTAAC
 TGAATATTATGAAGTAGTTCTTTTCGTCATTANCTGCCTGGNGATTCTGACTTTGCCCTCTCGCTC
 TTCTGATGAGGAAATATCATCCGTAGGAAGTGTGNTTCTAAACTAATATCTTCAGATTCCAGAGAA
 CTAGAGATGGTCACTTTTTTTGGACTCCTTTGAAATTTCCGAGACATTTTTATTATTATGGAT

SEQ ID NO: 2136 GTGGGTGCGGCGAGGTACGCGGGGAGCACTTCCTTCTGAGTGGGCTTCTCT
 GGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAAAATCAGGATACGTGGCTTTAG
 TAAGTAGACCAAGCGCTTCNTGGCAGGGAAAGCAGCGTGCAGGGGAAAGTCACTGAAAAGTGCTGC
 CTAAGGAAGTTTGAAAATAGTCCCGTCCAGATTGCCTNGAATTTTAAAACATNATGCTTTGGGA
 AAGTANGTCAGCANACCTAAGATCAAGGATNGCNTTCCATTTTTACTNNACAGTCATNAAAA
 CTGAAAANACTGTCTNCAGCGTGAACATAAGTCAACAGGCAAAATCACTGNCCANAAACANTTCAA
 GANCTTTNTGAAACANGTCNATAAGTCTTTTGAATGNGTACCNTGCCNGGCGGNCNCTGNAA
 ANAGNTNAATTCCANTCACNGNCGGGCNGTANTATTGGATTANGACTTGGTAC

SEQ ID NO: 2137 ACGCGGGGGGCGAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCG
 AGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAG
 AGCAGCCTACGGCAACTAAAATGCCATTTACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGAG
 TGATTTTGAAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTG
 CAACCTACTGCCTATCTAAAGCACCTCAAAGGGCAAAACGAGGCAGCCCTGGAATGCTTACGTAA
 AGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCTGGTCACCTGGG
 GAAACTATGCCTGGGTCTACTATCACATGGGCCGCTCTCAGACGTTTCAGATTTATGTAGACAAGG
 TGAACATGTCTGTGAGAAGTTTCCAGTCCCTATAGAATTGAAAGTCCAGAAGTTGCTGTGAAGG
 AAGGGTGGNCACGGTTAAAGTGTGGGGAACCAAAATGAAAGAACGAAGGTGTGCTTTGANAAGG
 CTNTTGNAANAANCCAAAAACCCAAAATTCNCCTNTGGACTGNCATANCAAGCTACCGTNTGGA
 NAANTGGCCACCATTT

SEQ ID NO: 2138 ACTCTAGTTCTATGAGGTTCTCATAATTGTAAGGCACATGGAAAAGCAGAT
 GAGGTGCTGACTCAAGAAGTGAATACCTTGGGGCCTCTGAACCCAGGCCTGCCTGACTACCTCA
 GGGGCTGAAGGATCAATACCTTCAGTGTGATGAGTGAAACTGGGATCTTTTTTTTTCTTTTAGCT
 TTAGAAAAAGGCCTTTGACGGGCGGATCACGAGGTCAAGAGATTGGGACCATCCTAGCCAACATG

GTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGTGTGATGGCACACGCCTTAGTCCC
 AGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCTG
 ANATGGCCCACTGCACTGCACCTGGGCAACAGANACTCCATCTCAAAAAATAAATAAAAAATAAAA
 ACTCTTCTCAAGATTTTAAGAGCATTCTAAAATTATGATCANAAAAAGCAATCCTACAAGTACTG
 GGGCCAAAACGTGGATTCCAATGACCTGCCTTGACCCGNGGTTGCCAGAATTTGGCCTGCNNTATT
 TNGGAAGCTCACGGNCTAATCC

SEQ ID NO: 2139 ACAGGTGGAACAATCCAAAGTTTAAATCAAAGAAGGTGGTGTTCAGTTGCTG
 CTCACAATAGTTGATACCCAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTT
 ATCGACTACATTGATAGTAAATTTGAGGACTACCTAAATGCAGAATCACGAGTGAACAGACGTCA
 GATGCCTGATAACAGGGTGCAGTGTGTTTATACTTCATTGCTCCTTCAGGACATGGACTTAAACC
 ATTGGATATTGAGTTTATGAAGCGTTTGCATGAAAAAGTGAATATCATCCCACTTATTGCCAAAGC
 AGACACACTCACACCAGAGGAATGCCAACAGTTTAAAAAACAGATAATGAAAGAAATCCAAAGAA
 CATAAAATTAAAAATATACGAATTTCCAGAAACAGATGATGAAGAAGAAAAATAAACTTGTAAAAA
 GATAAAGGACCGTTTCTNTTGTCTGNGGTAGGTAGTAATACTATCATTGAAGTTAATGGCAAAAG
 GGTGAGAGGAAGGCAGTNTCTTGGGGNGTTGCTTGAANTTGAAATGGTNAACATTTGNGATTTTC
 NAATCCTAAGAAAATATGTTGGNTNAGAACANACATGCAGGACTTGGAAGATGTTCTTNTNATGG
 CCCNTNTNAAACTC

SEQ ID NO: 2140 AACTGAAACATAAATCCGCAAGTCACCACACATACAACACCCGGCAGGAA
 AAAACAAAAACAGCAAGTTTACATGATCCCTGTAACAGCCATGGTCTCAAACTCAGATGCTTCCTC
 CATCTGCCAAGTGTTCTGGATACAGAGCACATCGTGGCTTCTGGGGTCACACTCAGCTTAGGCT
 GTGGGTCCACAGAGCACTCATCTGGCTGGGTATGGTGGTGGTGGCTCTACTCAAGAAGCAAAGC
 AGTTACCAGCACATTCAAACAGTGTATTGAACATCTTTTAAATATCAAAGTGAGAAACAAGAAGG
 CAACATAATAATGTTATCAGAAAGATGTTAGGAAGTAAGGACAGCTGTGTAAAGCTTGAGGCTGA
 AAAGTAGCTTGCCAGCTTCATTTCTTGGTTTCTTGGGTANGTGGGCGCCGGAACAGCAAGATGTG
 AGGTTCTGGTTCATGGATCATATAATGGACCCATCCCTGACTTTGCTGACGCCAGATTCTCCTCATT
 AGATTCAGACATCANATGGGTTTTAGGGCCAGCTTGGNTNTGTCCTTTGGGCAGCATGACATGTCN
 ATCTCAAACTCCTCGNCGTCTATTTGTCCGAATAGTAATTTGTTGTGCNAC

SEQ ID NO: 2141 GTCGCGGCGAGGTACTTGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAG
 GGTGAAGGACCAAGGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAG
 AGAGGCATCCCTGCAATGATTAAACACCAAGGGAAGGCTGCCTTCCCAGTCTGTGACCAGCGCCG
 GAGTTTTGGGTCCACGGATAAAACGTGTCTCTTTTGTCTCTACCAGAAAATGAAAGGAATTGAAAT
 TAAGAGAAGGGAGAGATTGAAGTGTAAGTGCCAAGATTGAAAGGAGAAAAGTGGTTAAGGGATAGT
 GAGGGAAGTTGGAGAAGAGAGTAAAAAGAGGCTGCTTACCAGATTTGAAATTGGTGAGATGTTTC
 TTGGGTCGTCGGTCTGAGGACCTGAGGTCGTANGTGGATCTTTCTCAGGGAGCAAAAGAGCAGG
 AGGACGGATGATTGATCTCCCAAGGGAGGTCCCCGATCCNAGTCATGGNACCAAAATTCATGTG
 CGTNCNATGTGAAGAGACCACCAAAACAGGNNTTTGTGTGAGCAACATGGTTNTTTATTTANCTGG
 GTGCANGCGNCTGANTCCAAAAAAGAGTTANTCCCTNGTCTTGCCCGGCTGACNTTTTAA

SEQ ID NO: 2142 ACAAGACTCTTGACAGTTGTGCTTCTCTAGGAGGTTGGGTTTTTTTTAAAAAA
 GAATTATCTGTGAACCATACGTGATTAATAAAGATTTCTTTAAGGCAGAGGCTGGTTCGAGATGCT
 GCTGTTATCTTCTGCCTCAGACAGACAGTATAAGTGGTCTTGTCTTAAGATTCTTACCACAGTTA
 CTTTGGGCCAAGTATCCACATCCCTTGCATATGGGAGGTGGGTGAAGAGTGTGGATGCAAAGT
 GGTATTATGGGAAGTAGCTCGATGGTAAAAGGACAAACACCTATCTATCTTAGAGCTTAAGCCT
 GTATGTGCTTATTCCCAAGGGAGATAGAGGTGTTTAAATCACAAGGACAGCATGAGTTAGAGGACA
 CTGGCATCAACAGCTGCCACAGCCGTGCNACCAGGGCCAGAGCAGCCCACTGACATCTGCTTTG
 GTCTTGAGATCAAATGCATCCATTCTTCATACATTAGAAGGTGACCTCCTTGAAGCANACCAAG
 TATAGCAAGCCTTTAAAAGGACTACTGAGAAACAGAATCAGAACTCTTAGAACTCTAGTTAGGG
 CCCTTNAAGNAGGGCTGCAGANNCTCCCTTGATACCCAGCCCTGGGGAAAGCCTGTNTGGTCTT
 GTCACCCAG

SEQ ID NO: 2143 CGGCCGCCGGGCAGGACGCGGGGGGAGATGATCAGAAATCCTTTCACTGTCA
 AATTCAGAGAAGAAACATGCTGAGAAGAGGCACCTTCTATGCCAGGCCTACCTGTGCCTTGAGGA
 ATACATGTAGGAGACACTATTTGAAAAGGTGCGCACCTTGCTGGAACAACCAATGCAGAGATAAT
 GCTGGGCCCTCTAATCAGTTGAACAGTGGCTTCAAAAAGATAGGTCAAAGTTATAATCTCCTGCAG
 CTGTGCATGTGACTTTCTTTGGAAAATAGGATCTTGCAGGTATGATGAAGGCCTATCTTCCCCAGGC
 CTGCCAAAGGGATCCTGCAAAAAAGCAAATCTGATCATATCCAGCTCTCAGACCTCTCCACTCG
 ATGTCCATCACTCCAGGGAGGTGCCTTCCAAGGCCTGAAGGTTGACAGATCCCCCAGGATCCCCA
 GGGCCAGCCTACTCTTGNAGCCTNACCTNCNNTGCTCCCTTATGCCAATTCTCAGCAGGTTTCTCC
 CCTGCTTCATTCTAAATGTTNCCCTCCAGTGATNTTATTTGATCACCTTCTTGAGCATGCGATNGC

CTTCCTGTGACTTTINCCACCANTTTCCCTGAGTCAGGAAATGTTNTTTTNGTTTGACAACTTGGCCAA
NNTCTGGTTAGNTTNNNATTCNNNTA

SEQ ID NO: 2144 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCAT
AGGCTATCCCATCACCCCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAG
AGGAAGAGAAAAGGTGAGAAAAGAAGAGGAAGATAAAGATGATGAAGAAAAACCCAAGATCGAAG
ATGTGGGTTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAACTAANAAGATCAA
AGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCCCTGATG
ACATCACCCAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTG
GCAGTCAAGCACTTTTCTGTAGAAGGTCAGTTGGAATTCAGGGCATTGCTNTTTTNCCTCGCGGGC
TCCCTTTGCCTTTTNGNANCATGAAGAAAANNGAACNCTTNTTCTTTTGTCCCGCNGTGTGTTCA
TCTTTGGCCAGCTGTGNTTGAGTTG

SEQ ID NO: 2145 GTCGCGGCGAGGTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTG
GAGCCCTGTTGGCAGCTCTAGCTTTGCAGTCGTGTAATTGGCCCAAGTCATTGTTTCTCGCCTCA
CTTCCACCAAGTGTCTAGAGTCATGTGAGCCTCGTGTCTATCTCCGGGGTGGCCACAGGCTAGATC
CCCGGTGGTTTTGTGCTCAAAATAAAAAGCCTCAGTGACCCATGACAAAAA

SEQ ID NO: 2146 ACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCCTCTGG
CTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAAATTTGTTGCCATGCCTGCTCTCGCCCCACCA
GAAGCTGTCTATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTGCTCAGACAAC
TGCTCTCCCGGATGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCACGTCAGAAAGTCTAGT
NTTATAGGCAGCTGTCTGTGATGTGTCAGCGGGTGCAGCAGTGTGTGCCANCTCATTATTATNTANC
TAAGCNGGAACNTGTGCTTCATCTGTGGGATGCTNGAANGAAATGANTGGGCTTTCNGAAGTGAN
TGGTGGCAGGTNTAAAAAATTNCTTACTNGTNCNGAACATGNATNTTNNCNTGANTTGGANTGC
NNACGATGGNTTGAGTTTATATT

SEQ ID NO: 2147 ACATTTTCATAAAATATGAAGGGATAACTACAACTGGAGTAAAAATGATGG
TAATTAATAAAAAATCCTCAGTATCCCTAGCTTGTCTATTAAGTGTGATAATCTGACTTGAGTCAGA
TTGAATATTTGGAGTGCTTCCCAGAATAACCACTTATTTTTGAAGCTATCATGTGAAGTATTTTTT
TAAAAACAAAACAAAATATGGTCATTAAAAAACTAGAGAATTAGCCATATTAAGGATTTTCTT
GACTGCAAATTACTTCTAAAGAATCATCAGTGTATAGATTAGAAGTGCTCATTACCTGCAACTTTT
AAAAAAATTCAGTTATAGCTGCTTTTGAAGAGGTTTCCATTTTATTTAAATTACTAATGGATCA
AAGAACAATTGTTTATTTTTTCTCTTTGGTTTTAGATATTAATGATAACCTTGTGGAATTTTTTTC
CAAAGAAAATATTTTTATAATTAATAATTTAATGTTTTTCTTCTTTTATTACCTACTCTTGGCA
GTGTTAGGGTATCTGTTACCTTTAAATGATAAGCTCCTCAAGATTTTATGTATGTATAAATATTT
GGNGTGCTACAAAAGCCTTGNAAAATTATCAGNAGTAGTTTTTTTTTTTTTTTTTNAANAATGA
NCCG

SEQ ID NO: 2148 GTCGCGGCGAGGTACTGGCTTTTCAAAAAACAGAACAAAAAAACCCAAA
AAAAAGTCTCTCACACATAAGCCAGGTGGACCTGAAAGAGCCAAGGGGCAGGAACAATGGCTGT
TTCAGCAGCTACTCAATAGCGAAGGGTCAGCGTCCCACTCCCATGCCTTGGCACCGCATCAGATGT
CCTGGAGCCCTTGATACCATCCTGGAAGGCTTTGTTTGGAGCTCCTTAATAAAAGAGGGCAAGGC
GAAGAGAAAAGAAGACCAGGACAGCCAGAAGCAAGGACCACTGGACGCCTTGGCTCAGGTGCCTG
CATCTCCACAGGCANGACCTNATGGTGGTGGGTCGGGTTCTANAGGAAGGTTCTGCNTGTCTGG
GGCCTTTGATGTAGGCAAGCTGGGAGTCTACCGCTCAGGTTTCTGGCCAGGAAGTGCACACCT
TTTGTCTTAACAATCCCNCGCNNTCCTNCCCGGGCNGGCCGCTTCGAA

SEQ ID NO: 2149 ACITTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNCAGGGGAAAATAACTTTTAT
TGAGACCCCACTGCAAAATCTGTTCTCGCATTAAGCTCCTTCTCCTTTGCAATTCGGTCTT
TCTTCAGNGGNCCCATGAATGCTTCTTCTCCTCCATGGNCTGGAAGCGGCCATGGCCAACTTGG
AGGNGGGGTCAATGAACCTAAGGTNAATNTTTTCCAAAGCCNCCGNTTCTTNTNNACCANCAAG
GACTTGCGNGGGTGAGCNCCGNTTTTGGTTTCCACCACACANCCTTTCANCATGACAAAGTC
TTTGGTCCCTTCACCATNGGGGACAAAGCCNCCAGAGGG

SEQ ID NO: 2150 ACCAAAACATTTATGACCTTATAATTTTATAGTGCAAGAAAAAGGACAAAGA
CAGGAATACAAATAAATTATAATCTAAAGAGTTACATATAAATGTCCTTGATTATTTGTTAAAT
CTGCTAGAAAAAGTAACAGGAATGTTATCAAGCCTTTCTAGACATTTTGAACACAATCTGACACCGT
TGCATTTCTGGTTGTATCCTCAGCTTAACAGGCACTGGAGACAGCCAGCTTCTTCAAATGGTCCA
TGAACACCTGCAGGCTAACATCATCAGTTAGGATGGGTGCTCCAGTTTCTGTCCCCAAGCATACA
GGTTATTGTGTGTCTGAGATGGGTTCACCTTTGGACAAAAGGAATCGAGCCTGACTGCCTCCATGCT
CCGTGTTGATGTAACGTGGCATCGGGAAGCGTGCTTGCAGAATTTCTTGAGCATCATCCAGTGGTG

CCTGCAGAAGGTGCTTGAAGTTTTCTACTCGGGCATTGTCCTGGTAGCCAGCTTTACGCCACTGG
GCTATGGNCTCACCAAGATAAATGACAATTTGAAAGAAAGTNTCCTCANCAAAATTCTGCAGCTA
GAATGCTGNTGCTATCCAANATCCTNGGCCGNGACCACGCTNAGGGCGAATT

SEQ ID NO: 2151 ACAATCAATAAGTCTTAAATCTCTCTTCCATGGATTTCCCCCATCTCCCCACTT
AGCAGTAAAAGGCATTTTATAGGTTTATATAAACACATTTCTTACAACCTGCCTTCTTAACAGAAAAT
TACTGTAGTATATAAATAGCACTGAGCATTTAGTAAATAAGTTACAGGCCAATAAGTTCAATTGTG
CAGTTGTGAAATCTAATGTCAAAGAGTTTTTGAACCTTAAGACTGGGTGATCTGCAATGTTTCCA
ACATGCTCTCGACAGCCTTAAGAGAATATTTGGTTTCCTTCTTACTTCGACCTGCAAACTGATAAG
CTCTGTTTATTTGACTAGCTGCCCACTAGCATATTTTCATGTTGNCCTTTTTCGTTTTTGCACTTGCT
GTTGGATTANNAAGCAATATGACTTGCGGANNTATAANAGTCCANACAANGCTCTCATATTTCT
GGNGTTCAGTTTC

SEQ ID NO: 2152 ACGCGGGGACTGTCAGGTGACGCTTCCGGCGCAGAAAAATGGCAGCCGCCG
CTCCGGACTCACGTGTGAGTGAGGAAGAAAACCTGAAAAAGACCCCAAAGAAGATGAAAAAT
GGTAACTGGAGCCGTAGCGTCGGTGTGGAAGACGAGGCCACAGACACTTCTGATAGTGAAGGAA
GCTGTGGATCGGAAAAGGACCCTTTTATTCTGATGATGACGCAATAGAAGCTGACAGTGAGGGT
GATGCTGAGCCCTGTGACAAAGAAAATGAAAATGATGGAGAATCAAGTGTGGGACTAATATGGG
CTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCTAAAAGTAAACCTACTATTCTGG
TCAAAAATAAGAAGCTGGAAAAGGAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAA
AACAGCGTGATAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGA
CAAAGAGACAGAGAGAAATCTTCAGAGAATTGCACAAGGGGTGTGGNGCAATTATTTAATGCTGG
TCAGAAACATCAAAAGAATGTTTGATGAAAAGGTTAAGGAAGCTGGAAGTTTATGANAAANCCTG
CTAAGTTGATATCAACTGTTTCC

SEQ ID NO: 2153 ACGCGGGGGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCGTGCGGGA
TTGTAAGCTGCTGGTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTCCGCATTTTTCGTCGGGATCC
CCGCAAGGATGAGTGCTGCCAGAGAGTCTACCCGCATGGGGTGAAGCGTTCAGCCTCCCCAGAC
GACGATCTGGGATCTAGCAATGGGAGGCAGCAGACTTGGGTAATGAAGAGAGAAAACAAAAGT
TCTTGAGACTTATGGGTGCAGGAAAGAAAGAACATACTGGTCTGTTTATAGGAGATCACAAA
TCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAAGTGGAGTCTCAATA
TCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGCTTCAGTGA
GGTAGAAGACCATAATGGANAAGGTGATGTGGCTGGANATGATGATGATGACNATGATGATTAC
CTGATCCTGAAAGTCCANATGATTCTGAAAGCNATTCAAAGTCANAAGAAAGAAGAAATCTGCTTG
AANAACCTCAACCTTGCTTAACACCCTGATGAAGTGGAGGATCCCAAAAACAAAAAANATGCAA
AAGCAATTATTAATAATG

SEQ ID NO: 2154 ACAAAGGAGGTTATAATGGACTTAACCAGTGTTTGACAACCTACTGACAGCAA
GATATTTCACTGTGATAAATGTGTGAAAGTCTTTCATAAATTTCCAAATGTAAATAGAAATAAGAT
AAGACATACTGGAAAGAAACCTTTCAAATGTAAAAACCGTGGCAAATCATTTTGCATGCTTTCAC
AATTAACCTCAACATAAGAAAATTCATACTAGAGAGTATTCTTACAAATGTGAAGAATGTGGTAAA
GCCTTTAACTGGTCTCAACCCCTTACTAAACATAAGATAATTCATACTGGAGAAAAACCTACAAA
TGTGAAGAATGTGGCAAAGCTTTTAAACCGTCTCAAATCTTACTAAACATAAAATAATTCATACT
GGAGAGAAACCTACAAATGTGAAGAATGTGGCAAAGCTTTTAAACCGTCTCAACCTTACTAAA
CATAAAAGAATTACATACAGAAGAGAAACCTACAAATGTGAAGAATGTGGCAAAGGCCTTTAACCA
GTTCTCGATTCTTAATANACATAAGAGAATTCATATGGAAGATAAACCTCCAAATGTGAAGAAT
GTGGCAAAGCCTTAAAGTTTCTCAATTTTAAAAAACATAAAATAATCCATACTGGGGAAAAACC
ATACAAATGTGAAA

SEQ ID NO: 2155 GTCGCGGCGAGGTACATTTTCATTTTCTACCCTATCAATTTAAAAAATAAATGT
CTGTGCTCTGTCAATTTCCATCTTTACCTGAGTAATATGAAAATACCTAAATTTAAGTGGATAACCC
AAAAGGGTTATGACTAATTTTCTCTCACAGTTTTTAAAAATACATATAATTATCAAACATAATA
GGAAAATGGGAAAGAAGAATGAGTGGAAAGAGTTCACTATCTCAATCATGACTTAATTAAGTGA
ACTTCTGTGACATCCTTTTTACAAGTTTACCTTACCTATCCCTATCCTCAAGGAGAAAAGGTCTCC
TTAATAATAAAGTCTTAAAGTATCTGAGCTTGAAAGATAAATTATAAAAAATGAAATATGGCCT
TCACTCTTTAATTTCTCCACACCTATTTCCACAAAGCCAAACTTACAAACATAAGAAATTAATATA
TAAGCATCAGATGGTATGAATTCTCAACAGGTATTACAGCGTAATTCTCCAGTGACATATTACCAA
AGCTGTAATCTATGTAATAATCAAGTGTCTACAGGTAATCATAAATTTAAGCAGCCTGTAGCAAA
AATTCAGAACACCATTTTATGAAAATATCCATTTTAAACAGCAAAAACCTAATTGCAAAAACAGG
GTTGGTTGGCATGGCAAGTGC

SEQ ID NO: 2156 ACGCGGGGGCTGCCGTCGCCGCCGCCATTTTGATGGCAGGAAGAGTCCGGTT
CTGGGACAGCTGGAGACAGTGGTGGTGACTGAAATAACTTTACCAAAGGAAAGCTATTTTGCAGAA
CTATCTTCTCCAGCGGAGATGGCCAATGTGCTTTGTAAACAGAGCCAGACTGGTTTCCTATCTCCCA
GGATTTTGCTCTTTAGTTAAAAGGGTTGCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTT
CCGGATGAGTCTCATGTGGCTGCTGTCCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAA
CTATGGGACCNTTTGNACCTCAAAATCANAAGTTCCANATTCCTGGGAACATANGGTTTNNATGNC
TACT

SEQ ID NO: 2157 ACCTTGAAAAGACACTGAAAGCATTTTGGGGTGTGAAGTAAGGGTGGGCAGA
GGAGGTAGAAAATAATTCAATTGTGCGCATCATTCATGGTTCTTTAATACTGATGCTCAGTGCATTG
GCCTTAGAATATCCAGCCTCTCTTCTGGTTTGGTGAGTGCTGTGTAAATAAGCATGGTAGAATTG
TTTGGAGACATATATAGTGATCCTTGGTCACTGGTGTTCAAACATTCTGGAAAGTCACATCGATC
AAGAATATTTTTATTTTTAAGAAAGCATAACCAGCAATAAAAAATACTATTTTGAGTCTTAAAAA
AAAAAA

SEQ ID NO: 2158 ACCTGAACTCAGCAGTGACATAGACAGCAGCAATTTTCGATGACATTGAAGAT
GACAAAGGAGATGTAGAAACCTTCCCAATTCTTAAAGCTTTTGTGGAAATCAGCTGCCTTTCATC
GGATTTACCTACTATAGAGAAAATTTATTATTAAGTGACTCTCCATCTTGTAGAGAAACTGATTCC
ATACAATCAAGGAAAAATGAAGAAAGTCAAGAGATTTCAGAAAAAACTGTATACATTAGAAGAAC
ATCTTAGCAATGAGATGCAAGCCAAAGAGGAACTGGAACAGAAGTGCAAATCTGTTAATACTCGC
CTAGAAAAAACAGCAAAGGAGCTAGAAGAGGAGATTACCTTACGGAAAAGTGTGAATCAGCAT
TAAGACAGTTAGAAAAGAGAAAAGGCGCTTCTTCAGCACAAAAATGCAGAATTCAGAGGAAAGCT
GATCATGAAGCAGACAAAAAACGAAATTTGGAAAATGATGTTAACAGNTTAAAGATCAACTTGA
AGATTNGAAAAAAGAAATCAAACCTTTAAATTCCCTGAGAAAAGGGGANTCACCTCCAGANACA
ACTGG

SEQ ID NO: 2159 ACTTTTTTTTTTTTTTTTTTTTTTGGTACCTGAATAATCAGGNCTTTATTCAAAA
NAAGCTGTCCAAAATGATTTGACCTTTATGGAATAATCAAATTTAANAGTTTNTGCAGCAGGCTTT
CTTNTCCTNTGTAGTAGGTTTCTNCTCTGCAGGCTTCTTTNAGGGGCTGGTTNNTTGGTAGCTGCN
TCCTTTTTTCCNACCAGAGGCTTCTTTTGCTTNTTAA

SEQ ID NO: 2160 GGAAGCCGGCGCCGGGCAGGTACTCTTGATGAAAGACCGTGAAACCAACAA
ATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACA
TGAATGGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAAACCATCATTTGAA
AGTGGTAGACGTGGACCGCTCCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTANAGGTGG
AAGAGGAGGAAGTGGAGGAACCAGGGGACCTCCCTCACGGGGAGGACACATGGATGACGGTGGA
TATTCCATGAATTTTACATGAGTTCTTCCAGGGGACCACTCCCATAAAAAGAGGACCCCNCAAGA
AGNGGGGTCTCCTCCTAANAATCTGCCCTTCAGGACCAGTTCCNATTANCANTGGAATTGGGA
GGAACCTCTGTTACNTGGAA

SEQ ID NO: 2161 ACTTTTTTTTTTTTTTTTTTTTTTGGACACACCTGCCCTTTATTGGTCTNTTCT
ANCAAAGNGGCTCCAGGCCCTTCACGCCTTTNAAACACCACCCATGAGGGTTTAGGAAGNGCCA
TCATTCTGNGAAGGCCCAAAGCTTACCCAANTNTTGGAGCCCAAGTTGAATCACCAACCANAGGG
TTGGGAAAGGAAAAGGAAACAGGCAGAGGGGAAAAGGCAAGGCTCTGCATTGAAGGGGACTGATN
TCAAGGGANTGCTGAGGTCCACCAAGTGNTCCTGAAGGCATGCTGCATCCTAAGGCTCCTNAGGA
CTGGATGGANTAGNAAATCTGNNTGTTTAAACANTTCACATTNTNTATNGGCAACTTAAAGGAGGC
CTTGATGTCAGGCTCAATTGNTTATGGTTGGNAAGGGGCGGCTGTANCNA

SEQ ID NO: 2162 ACATAAGCTATTCAAGATTTCTCCAGCACTGACTGATACAAAGCACAATTGA
GATGGCACTTCTAGAGACAGCAGCTTCAAACCCAGAAAAGGGTAATGAGATGAGTTTCACATGGC
TAAATCAGTGGCAAAAACACAGTCTTCTTTCTTTCTTTTCAAGGAGGCAGGAAAGCAATTAAG
TGGTCACCTCAACATAAGGGGGACATGATCCATTCTGTAAGCAGTTGTGAGGGGGTAGAGATGGG
ACAAAATTTTGGTCTCAGAGGTCTTACCATCTTAATTTGGTAACCTTCTAATTGAAAAAATAAAAA
ATAGAAATAACATTATCCAAAGATATCTTAAAGCTGAAAACCTTGAACAGCACATTTTTTGTTTTTG
TTGTTGTTTGGCTAACTCCTCCTGGAATCACCTTTNTGGTTTAGCTAGT

SEQ ID NO: 2163 ACAGAGAGGTGGGCCTTGAAGCCAATAAATACAAAGCTTCCTCTGCCTTGTA
ACAAAGGCAGGTTGGCATAGGGCCCTGGAGCCTGAATGCCCATGCCACTTTGGGATGGGGAGCA
GCTATCACTCCTCTGCTGGCTTCACTTGCGTGGCGGCCTCTAGCTGGCAAAGTANCTCATCCCACT
GCACAAATTGCTTGGAGAGAAACATTTGTAGTCTTGTTGTATTCTCCAGNAAGCCTTGGACTCCT
AAGNTGATTTCCACACACTGGTCTTGCTGNTGAATGTGGATCTGGCCAANNCGCTTNGATGCGG

SEQ ID NO: 2164 ACATTTTTGTTACAGACAGAAGGCTGATTTTGGAAAGAAAGAAACAATAGGA
TGTATAGTGCTTTCTATCAGCAGACTAGTATGTTTAAAAATAGTCTCATCAAGGGTTCTGAATAAG
AAATATAAATGTTGCCAGGCAGTCCCAAACCTCACATTTGATATTAAGTGCAGACTCATTTAAACCT
GAAAAGTGTCTCCAGCCTCTCTCAATCTTTACTAAGGACTGGGAGATTATCAAACCCCTTCAAGTCT
AATAATGCTTTTGAATTAAGATTATTGAAAAAAGGAATTTCTGTTCAAGTGCAGAAAGAACATTTTGAT
AGAAATTCATGTCTACAAAGGAGTTAAATACAGATGTCCCTTCATTACAGATACTATTCTTGCTCT
AAAAAGGTAGATTATCAAGACATTGTAAATAATATGGGTCAAAAATATGTGTACAGAGTTCTAC
AGGGCACCTTATATAAAGNTCAATCCTCAAAGTATGTNTTTGACACTCTCCAAGNGAGGATNTTAC
TTTTTGNAAAAACATTANACACACAGTNGCCTTTTATTATTCCATTAACATATTGGAGG

SEQ ID NO: 2165 ACGCGGGGGACGGCGGCAGTGCAGAGAAAGCCGAAGATGGCGGTCCCCGCGG
CGCTGATCCTACGGGAGAGCCCCAGCATGAAGAAAGCAGTGTCACTGATAAATGCAATAGATACA
GGAAGATTTCCACGGTTGCTCACTCGGATTCTTCAAAAACCTTCACTGAAGGCTGAGAGCAGTTTC
AGTGAAGAAGAGGAAGAAAAAATTCAGCGGCATTTTCTCTAGAGAAACAAGATCTTCACCTAGT
TCTTGAAACAATATCATTATTTTAGAACAGGCANTGTATCACAATGTGAAGCCAGCAGCTTTGCA
GCANCAATTAGAGAACATTCATCTTAGACAAGACAAAACTGAAGCATTGTGCAATACGTGGTCTTC
TATGGNTCAAAGAAACAGTTGAAAAGTTCGGGCANAAAAATTTCTGGCTCCTGTANCTAGAACCAGT
TGATTGGCANCTTACCTTCAANTGGCTCACTCTGTTTANCNAACTAAAATCTCCTNAAGCTGNGT
TACAACCTCGAGTGAACAATGAANATTTNAAAGACCTGGANAAANTCTTNGTGGTATTNAATTCNC
AAGGAGTTTTTTATTTTTNTACA

SEQ ID NO: 2166 ACATCTTGACCTTCTTGGTCTCTGAAGTATTCAGCCACAGTCAGCCCAGTCAG
AGCTACCCGGGCACGAGCACCAGGTGGTTCATTCAATTTGACCATATACCAGCGCTACCTAANAGG
TGGCATCTNATAAGTTGATAACACCAGATTCAATCAATTCATGGTATAAATNATTGCCTTCACGNG
GTCCNTTTCACCAACACCAGCATAACACATAGTAACCCCTTNGGCNTTTGGCAANATTNNTATAT

SEQ ID NO: 2167 ACCAGCTGTGGGATTTTCGTCTTCGGATTCAATTTGTTGCTTTAACTTGGGCTTTT
CCTCTGCCACGTTTTTTCTTCCCATGCTCTGGGGTCTGTTCCCTTCTTTGATTCAAGTTTCTTCACTGT
AGTATCACCACCTTTCAGGTGCCACATCATCTTTACTAANAACCTGATGCAGTCTTCTAGCCTGCTG
CCTCTTCTTCTCCTCTCCTTTTGTCTTTCAAAATTTCTTTCTCTNCGTTTTCTCCTTGCCTCTTTTTTC
TTCTTATTAAGCAAAAAGATCTTTTGGTGGCTTCATCCCAATTGCTGANAAACGAGGAAAAAGANT
GGGAANGTGCANCCCNATTTCTCANTTNTTAAAAAAGGGAGTTTCACGCTCTTCCCACTTCTCTT
GGCAAATNTTTNTGAAAANTCTTTNGGGGAAAAANCAANAATGNTT

SEQ ID NO: 2168 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGAAACTTTTTATTTATATTTNGGT
CTTACAAATGATCACTTTTAAATGGACTTTTCTGTAAAAATGTAAACTCAAAAATTTGCCAAGTN
TGATNTGATCCACACAAATCCCTAAAAAGGTTTCTGTGTAGTCTTCATTAAACNCAAATCTTNGN
GAATGTTTCACTCTTACTGTAGGATCTTGAATATGTTTTACAATAATGAACCTCAAAGTTTTATGCA
GGGCATTAATTGTAAACTATAAATAACATTTGTTTAAAAANAAANCTGGGTAATANAAAAAATNGG
AAANACTCTNAGGAGCNGGCANTCTGTTGNGGCTCAANATATNTTATTTGCTTTGGAGCCNGCTG
NCATCCTTTNAAAGAGCACACNGGACANGNGCNTNGGAATCNTCTGNTTGTAANCTTCTAATTT
AAAAATCNNGTNGTNGTAAACNNGGACCATTATCA

SEQ ID NO: 2169 ACTCCATGGCAGACTTCACAGGGCCTTGTCCATTGGAAATAGAACGCATCAA
AATCGAGAGTCTTCTCTACAGAATTGCCTCATTTTGTCAACTGAAAAATTATGTGCAAGCTGATGA
AGATTTTAGACATGTGCTGGGAGAAGGACTGGCCAAGGGAGAAGATGCCTTTCGGGCAGTGCTTT
GCTGCATGCAGCTGAAAGGGGAAGCTCCAACCTGTATCCACCATTCTTGCCAAGTCACTCACAGGA
GAGTCCCTGAATGGGATGGTAACAAAGGATTTGACAAGACTAAAAAACACTTCTCTCAGAAACAG
AGGTAAGGCCATTTCAAGTGGATCCGTTTGAAGAGTTTGACTCAATCTGTCTAGTAAGCATTATG
TATTAATAATTTGGAAGAACCATTTGTGGCATCANCCAAAANGCNAGGCTGTGAAAGNNGGGCATTGG
GACTTGCCAACCCCTTCTTGTACCCCATAAACCATTCCTTCGTTGGGAATGCTGCTTNTCCCAT
GTCTCCTTTGGGGGCCANGGCTTATCTTNTGTCCCTATTGGACAANAACCTTGGTNTTTTATNACCTG
NCTCTGGANACCANATGGGAAAAATGAATTGGAAAAATTTANTTTTAAACNNCTTTTGGCTACTAAA
AAANGAAAT

SEQ ID NO: 2170 ACCGTAAGATGGGAGAACCGGACCATTGAAGTGTATTGTCAACGTTTTTGCCA
TTGCTATTGTTCTTTAACTGACTAAAAATGTTGGGCTAAAGCCATTAACTTAAGAATTTGTCAAGTGT
ATCCTTTCCAAAAAGAGTAATAGTTTACTAGTGTGTANATGAAAAAGCGTGCAATATGCTTTA
AAGCTTCAACAAAAAAGTGAATATTATAAGCAAAGCATTATCNTAGTAATTGGCAGATTAGCTCA
TATTCTNNTCANCATCNTNAAATAGGAAAAATTTANTGCTANCANAAAAATAAANTNAAAAATAT
GGNNTGACTTGAAAAATNCCATCTTATNTTGACACCANCTTTTACTANTNTTTTGTACCTGCCCN

GGGCGGGCGNTCNAAAGGGGCGAATTTCC

SEQ ID NO: 2171 ACTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
AAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATG
ACAAGAAAGGGATTGTGATCAGTCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAA
GGAAATACAACCAACNCATCCTATCAGACTGGGTCTGGCCCTTAACTTCTCTGTGTTCTATTATGA
GATTCTGACTCCCCAGAGAAAAGCCTGCTCTCTTTGCAAAGACAGCTTTTGATGAAGCCATTGCTGA
ACTTTGATACATTAAGTGAAAGAGTCATACAAAAGACAGCACGCTNTTAATGCANTTACTGAGAG
ACAACTTGACATTGTGGACATCGGATACCCAAGGAGACNAANCTGAAGCCTGGANAAGGAGGGG
GAANTTTAACCGGCCTTCCACTTTTGTNTGCCTCATTCTTAAATTTACACAGTNACCTTTGTCTATCC
NTGCCTGCCCANAAATAGNTTTTTGTTCATTATGANNNGGTTNTGTACCTTTNTTTNAAATTTCNT
ATTTCCNATNTGGTTTTTANGTTAATATTNAGGGGAGTAGA

SEQ ID NO: 2172 ACTTTTTTTTTTTTTTTTTTTTTTTTNAACAAAAGCAACAATTTTTATTATCTTG
CTTTATATTTAATGGATTAGAACTATAAAGATTCTTAACTTTGAAAGCANAAATATAAGTTGGATA
GTAGTTGCAGATCTTTAATACCATTTTCAATTTTCAATTTATGAGCTGCTCATTATAAATGANATGCTC
TAAATAATAATCGCTTTTGTGTTGTTGTTATAAAACAATGAAAATTCCTGTTGGAACACAAGT
TGCTNTTTATATTTGCTTGTCTCTTAAATANTATTGANAAAAAGTAANGNGGANCTTGTGGNGAA
AGCCCCCTC

SEQ ID NO: 2173 ACGAGTCTGAGGCGGAGGGAGTAATGGCAGGACAAGCGTTTAGAAAAGTTTCT
TCCACTCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAACTGTAACCAAGGAGGCATTAT
GCTTCCANAAAAAATCTCAATNGAAAAAGTATTGCANGCAACANTAGTCCTCTGTTNGGATCGNGG
TNNTAAAGGAAAGGGGTNGANAGATT

SEQ ID NO: 2174 ACAGCTTTTAGCAAACTGCTTTCCCAGAAAAGCAAATTTAAATAATGCAAT
CAGCAGATCAAGGAGACTACAGCTAGACATCAGAGCTACAACCTTCTCATATCTGTGTCAGAAAAAT
CCTATTTACCCAGAATAGACTAAAATTTCAGGACAAAACAGGGACTTTTTAACATTTCTTACTTTA
CCCATTTTAAGTTCTTTTTATCTCCCCCACCCCCCAAGCCACTAATTCAGCAAGATCCAGGAGAAA
GAGGGCTACTTTTAGAATTGGCTACTTTATTTTTCTTTCTATGGCAAGACTGCATGGAGCCTGGATA
TTTCAGGCTCATATGCATCCATGACCAGTGTCCACTGTGGCAAAAAAACTTAGCAATGGACTTTGTG
AACTCGGCTTCCGCTGTGCTTGTCTCCCACTGATGAAGGCACTCAAGNGTTTTGCATCAAAACCTTT
AANACTGGAGGACAGCTGCCAAATTCATCAGGATCCCATTCTGGANGACTTTTCTTTTGCANAATA
TTCCAANAATTTTTTACANTGGACCATCCNCTTGNNAAATTTTTTCAGGCTTATCATTTTTTNCNTTT
ATCNACAGCCCGTACGGGCCTTTCTGNCCG

SEQ ID NO: 2175 ACGCGGGTGAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTCATGAA
ACATCTTCATTATAGAATAATTGATGTGAGCACTGTTAAAGAACTGTGCNGACGCTGGTATCCAGA
AGAATATGAATTTGCACCAAAAGAAGGCTTGCTTCTCATAGGGGCACTTGATGACATTNATTGAA
AGCATCAAAANGAGCTTTTCANTTTTTACCGAAATAACATCTTCAAGAAAAAAAATTGNTGATAAGAN
GNAGGAAAAATTATNGAAAAATGGGGNAANATGAAAAACCGGTGAGTTNNTGCCANNTTTTATG
GCTGCCNCTTCNATTTGTATTNTGGAGGCAACTTTNTGGGTGGTTTTTTTTTTCTNNCNCCTGATG
GCTTTGGCAAAGCACCCCTTCGGGTATCCTTGCATCTNAA

SEQ ID NO: 2176 ACTGAGAATGCCGTTTCGGGGGCCTTTATGGCGACGTAAGAACGGGCTTGGAC
TTGGTCTGTGAATCCAGAATCCAGAGGTGCAGGTAGCACTATGGATCAGGGTTAGCCTCGGGGGG
CCAAAAACACGGCTTCAGTTTCTCCCCACTCTCACTTAGTGTTAAAGAGTGGCAGAGGTGGGGTGT
GGGAGCTTCCCNAAAGACCTGCT

SEQ ID NO: 2177 ACTTTTTTTTTTTTTTTTTTTTTTTTAAAGTTAACGCATATTTGTTTTATTTA
TAGGTAACCTACCACATGAATTATAAAGACAACAAAGGATGTCAGAATGAACATGGATAGGTGTAT
GCATACTACGGCTAAGGAGAAACAATGTTCTACATATTATGGGTAGTGAGAACATTATCTGTATA
ACAGGGAACCTGTGATTATTTAAAAATATGCAGAACTTATTTTCATCTGTGCTTTANAAATAACTGTT
TCAGTGTTATAAGTTGAAAAGAACTCAAAATACTAATACCAAAATNTACACCTTGNTTANAATTC
AAAAAGCTGCTTTCTGTGAAGTCAATCAGCTTTATTAATAAATGACACAAATCCAAAACAAGATG
CATGTTNTATATAAAGGGGACATTGTAAGTTCTTCTGCTGCANTTAAACCCATGGTTAAATCCATGA
AATTCCCTTTTAAATTATCATTAAACAGAACTGCGCAATAGTCTCAGGATCTCTTAAAAACCTTTCC
CAAATCCACTNNTTCACTCCCCCTTTTNAAGAACTAAACAGGTATTTCGGGTANCTGNTTCTCTTTN
CATAANTTNGNTTGTNTAATTTTTNCAAGGGTTNNGGGCAAACCGNGCCATTCTTATTTGNGGGG

SEQ ID NO: 2178 GTACAAACAGCACTTTTACCTTTGCCATAACCTCAGGATCAGGATCTTCTATA
GGATCAGCCCATTC AACAGTTCCAACATTCCCCCANACCTTGACTTTACCACTCATTAACCTACGC

CTTGCCTGGGCAGCTGTTTTGTGATCTTCATATTCAAGAAAGCAAAAGCCTNTGTTTTTTTTCTTGT
CATCCGGTGGTGGGTATAAAAATGACGTCTGGAAAGAACCTCTGTTACTTTGCTAAANTCTTTAA
GANTCTGTNCCTTGGTTTNTCTNTTAGGAANTAGAAGCCCACAAAAAG

SEQ ID NO: 2179 ACTTTTTTTTTTTTTTTTTNTTTGGGTTTGGNATGCNCTATTTTGCCTTAAAAATT
TATTTACTAGTCTCAGTAATACATTAGTAAAAATCATGTCACTTAATTAATTGTGTTANAATCAAA
GAAACATAGAGTTGGGCAATATACTTNATCCCTACCCATCCNACCCAAATCTTACTCTNCTCATCT
TNATTCTCANTTAATTTTGGGAAAAANNTCCANAAAGATGTGTTCTNTTANATAAAAAANNTTAAANA
AAATAAGCTTTTTGANCCCTNCCAANCCCCCATCCCCA

SEQ ID NO: 2180 ACGCGGGTGCATGCCTGTAATCCCAGCTACTCAGGACACTGAGGCANGAGAA
TTGCCTGAACCCGGGAGGCAGAGGTTGCGGTGAGCTGAGATGGCACCCTGCACTCCTGCCTGGG
CAACAGCATGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAATGGAGTTTCAGGATCGTGGAG
AAATGATGAACCATATCATGTCCGCTGGGTCAAAAGCATTGACATGAAATGACACCCACTGTGTT
ATTTCAATTTCTAAAATGCCTTAGAAAAAAGACCAGAAAGAAATCTGCCAGGATNTCCACAAGGG
TTGCCTTTAATGGTGAGATTATNGGAAATACTGTTGGTNTANACTTTGCCAAATTGCANAGAAANCT
NTGCAAATCCTTTTTNGCACNATTNCANCTCCAGNAAAAAAAAAANAATNAANCCNGAAAGGAAA
AAGNACCGCTCTT

SEQ ID NO: 2181 ACCCCCTTTCCATAGAAGGGGGAAGCCCTCTTCTGTCTGCCAACCCGATCG
CGACCACTTGAGTAGAGATCACTTCGGCTGCTTGAGTAACTGTCTCGACTTCCACCATATCCGTCA
CGTGAGCTGCTGTAATCATCATAGCGACTGCTTCCACCATAAGATGGCGGGGGCCCTCGTGTAGGT
GGAGCACTACGTNAGTACCATAACTCTTATATGAATCTCTGTAGGAACCTCCACTTGGATGAATCT
GAATAGTCNCGATCACGACCATATCCATCTTTATCCGCTATATNCTCTTGAATGGATAGNCATNAC
CGTGAACCTGGGAANTGACCATTAAATNACGGTAAAGTATNAATCTCGNGGNGGGTGGNGCATAATC
CTCTANTTTTACGAAGAACCTTNGGGNAATTCTTTNGATTGAATNGCTGTNTTTATAANAATAACC
CATNATNTCTTTGGGGACAAANTAAANATTTCTAACAANAAGGCAANTNGGTTCCNTTC

SEQ ID NO: 2182 ACTTCAGTTGGTGCACAAAATACTGTCATTTGCTCAAAGCTGGTTGCCAAATG
TTTGGTGATGAAGGCAGAAATGAATGGCTCAAAACTTGGGAGAAGAGCAAAACCTGAAGGGGCC
CTCCAGACAATGATGGGCTTTATGATCCTGCTGCGATGNAGAGCCGGCTNTTTTAAGGCCAAGCA
GTGCACGGCCCTTCAATTGTGCTGGTGTGTGAACACTGCTGGGGTCAGAAGAACATACAAGGNCCC
TGGANNTAACCTGCTCTGAGCGAGTGAAAACCTCTGGATCATCATTGAACTAAAACACAAAANCAN
GAGAAAAACCTTTTGATAGTNAAAAGTTTGCNGACTGNACTTCANAAGGAGTCNCAACCCNTNTT
AACTGGATCCAAAATTTATCCNGAGTTTTTGTTTAAATATGTTTTCACTNTTGACTGGNTNAAAA
TCNTCCCAAAACTNAAATNATGTGGACATTNCTGATGTGGGCTATNTTTTNAANAANATNTTAA
AGGGGAATCCTTGTNTNTTCTAAAAAATGNNCCTGACATTNNTTGGGGNACACCTGGNTCCTGG
ATCCTGNCAAACTTTTAATTTATTTTNTT

SEQ ID NO: 2183 ACTGGTCCAGGAGTTATCCAGGATAGATTTTCACCCACCATGGGACGTCATC
GTTCAAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCCACACAATCGCAGTTTGAG
AGATGGGAGGCAAAGTTTATGAAAAGGCCAGGGGCTAAGCCANCTCTACCATAACCAGAGTCAA
GGGACTCTTATCCCAGCTGCAANGACAGTCCAAGGATATGCCACCTCGGGTTTCTAAAAAAGGAC
AGCTTAATGCANATGAAATTAGCCTGNGCCTGCTCAATCCGTCCTAATGAATAAAAATCAAGTGC
CAAAGCTTCAGCCCCAGATAACTATGATTCTTCTAGTGACACAACCACCCACGCACTTAAACACCA
CCTTTTGGGACAGACACCTCAACTTGGTCTNAAACTTATCCACCACCTANTCNAGGAAAACCTGGC
AAGACCCAGAAAAAGCCCCACCGNCNAANGGAAAAAACTCCTTAAACTAACTGAACCTTNTGNGA
CTNNATTTCTAANTANNGGAAATNCNAATGAAGCTTGTAATGGNTGTAAGAAAAANTGNAGGCTCT
AAAACCTTCTTCTGATATNNTAACCAAGGTATNATNCNGNCCNGATANAANCCATAANATAAA
NAAAAAGCANNTTNTT

SEQ ID NO: 2184 ACAGACATGAGATGCTTCCAGCCAGCCTNATCCAGGCTCATCGGGATTACTT
CNGGGCTCACACCTATGAACTCTTGCCAAACCAGGGGAGTTTATCCACACCAACTGGACAGGGC
CATGGTGGCACCNGTTATCCTCATCATACAAATGCCTGATCATGCTGCTCCTGTACCCCTCCACG
ATTTCCACANAACCAGGACATTCCATGTGCCTCATGGCNCCTGCCANCTGGCCCTTTGNCCTNTTT
TNTGTTCAAGTTNTTTTAAANCGGTTGGTAAGANACTTCTTGNAGAAAACACACAATTTTNTT

SEQ ID NO: 2185 ACGCGGGCACTTGATTTAGAAGAATGACACCAAACACATCGCTGAAAAAATT
AAGTCAGCTCAGCACGAGTTGAAATTGACTACATTAATTTCTTTCCACCTAGAATCAACAGGATGT
TTATTTCTATGCTGATTCTGGAGGGAGTTAACCTCCTGCAAAAAAAGGCATCTTGTCCCTACATCTT
CTTTTCTGACTTTTGGCTTCATCTTAATAGTAAGTTCAAGAAGTAGTTCATGAATAAATTTGAAAAAT
ATNATGGNCATTTGGAAAAAATGATTNATGTTTGAACCTGNNCACCCCAAGTAAGAAAGTGGAT

CTGCCTTTCCANCTTTTTGGNTTTCATTTNNGGCCTGGGCTTTACCAAAAACCACAAACTTATATTA
AAATACCNTTCATTTTGACANAGTTTTTAATGAGNGATTNATTNCCCTNNGTATTTGGTATGNTTA
AGAA

SEQ ID NO: 2186 ACGCGGGATGGCAATGTGGAGAAGGTGAAATTCATGAAAAGCAAGCCGGGG
GCCGCCATGGTGGAGATGGCTGATGGCTACGCTGTAGACCGGGCCATTACCCACCTCAACAACAA
CTTCATGTTTGGGCAGAAGCTGAATGTCTGTGTCTCCAAACANCCACCATTATGCCTGNTCAGTCA
TACGGGTGGAAGACGGNTCTTGCAGTTCAAAAACCTTCANTGAATCCCGGAACAATNCGGTTCTN
CACCCCANAGNATGCAGCCAANAACCGCATCCAGCACCCCANCAACGTGCTTGCCTTNTTTAAC
GCCCTNTGGAAGTGACCCGANGAAAACCTNTTTNAAATCTGCNATGAGCTGGGAATTAACCGC
CNTNTTCTNTGAAAATATTCTNANGCCAAAATTGAGCGCAANTCCTTTTGANTNCTTNAATGGGNA
TCNAAANCCAATGCCCT

SEQ ID NO: 2187 ACGCGGGGATTTTCTCCCGGAACCTCTGCTCAGCCTGGTGAACCACACAGGC
CAGCCGCTCTGACATGCAGAAGGTGACCCTGGGCCTGCTTGTGTTCTTGGCAGGCTTTTCTGTCC
TGGACGCCAATGACCTANAAGATAAAAACAGTCCTTTTACTATGACNGGCACANCCCTNCAGTTT
GGCAGGCTNATNTGCGCTGGGGTTCTGTGCGCCATNGGCATCATTNTCTNATGATTGCTAAAAT
GCAATGCAANTTTTNGCCANAANCCTCGNTAACCATNNAGGGNNAATNGTAAATTTNAT

SEQ ID NO: 2188 AATAAAGAACCTCTATCAGTGAGACTTCTCATTTTATAGCAAATACATTTTGC
AGCTTAAATTTTCTNGAATTCATATACGCTTCTGTCAATTTAAACAAACTTCCAGAGAAAACCTGGNC
TCTATATATTTAAATTACAAATTTGGCCAAATACATATTTNTCCATATTTAGATCTTTAATTATAAA
TATTAATTTGAAAAAATCAAANGTGAAAGCANAAACTGNTNTTCAAGTTTTTGGANAAATATTT
ATTTTATNATTAAAGTTTTGGTTGAATATNCCTCAATAGGGNTTCTAANAAACACCNATTATCTG
NNTCTTATGNAATTGGGGANNTTTNTGNAAAGNATGGTGAANCGGGGTTAACTTTAACTCTGGG
NT

SEQ ID NO: 2189 ACGCGGGGCTCTTCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
GAACCCCATGCGGGAACTTCGCATCCGCAAACCTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAG
ACAGACTGACGCCNAGCAGCCAAANGTGTGGAGCACTCACANGGCNTACCCCTGTNTTTTCAA
ANCTAGATACACTTGTCAAANTCTTTGGCNTTCCGNANAAATGAAAANATTGCTNCCANTGCC
AATTCGANGGGCCAAAGCAAAAANAAATNTTGGGAANANNGGTCNAAAAGNNCTGNAATTTNATT
AANAAAAACAACNTCCNTATTTCTGGNTAACTTTTNTTT

SEQ ID NO: 2190 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGCTTCTTATGTTTCTCTGTGCTGTATTCT
GGAAGTGGTTCGGATACCATCGTCTGAGCTGGGACTATTCTGATAAAATTTCTCTGCTATGGAGGAG
CCTGACTCACTTTCACTGCCAAATCTGGGGGGTATATGCTGGTGACTTACTATGGCTGGGAAANC
CACCTCATGCTTTGGAGTGGAACCACTGATGAGTGGANAACCATAGTTTTTAAAAAAACCATT
GAGGCCTAAACCTTCTTCACTACTTTCCCCANGTTTNTTGCAGNCACTTTGGCTTTAATGCTNG
GGGACCTCCCATCATGCTACTGANNATAATTTTGGCACACCTTTTCTCCCNATTTTTTTGACTTT
TAAGNCTNTTAAAAAANTCCCTAACTCCCGGGGGNNGAAAACCTTTGTTTTGNNTTTATNNATT
TTTTINANCCTTCCCTGAAAATCTTCNCCCTGAAATTTTTATNTTTGGAAGAAAANNGATTGGGTT
GGAAAAATTTNNNCTNANCCCCATTTNGGCCGTCANTNGNTTTTACCCCCAAGGCCCNTTGGNNA
NANCCCATNCCTTAATTTATTTTAAANA

SEQ ID NO: 2191 ACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACT
TGAAATTATTCCTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAGGG
GTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAG
GAAAGGTCTAAAAGATCTCCTTAAAACAGAGGGGAGCAAAATCGATGCAGTGCTTCCAAGGATG
GACCACACAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTCT
TANTTTGCAGTTCACTAAAAGGNGACCAATGATTGGTCACCAAATCANCTGCTACTACTCCTGTAG
GAAGGTTATGTTTANCATCCTAGCTATTNAGTAATACTCTACCTGCCCCNTTAAATNAANCTC
TACTGGAGGNGCTATGGTCTTAANGGATGGTCTGGACCTGCTTNAATTTTTCCCTNACCTTTCCA
NTTTCCAGGGTNCCT

SEQ ID NO: 2192 ACCCATGATTTGGACACTTTGTGCGGGCCCATTTACTTATACTGCAAAGCGTCC
TTCAGATATCAAATTCAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGAACCTGATGAACA
TATACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCCAG
TTATCTATGATAGCAATGGTGTCTGCTTTCAATGCCTCCCATCATCAATGGGGATCATTCCAGAA
TAACAGTAAATACTAGAAATATTTTATTGAATGCACGGGAAGTACTTTACTAAGGCAAAAATA
GTTCTTGATATTATTGTACCATGTTTCAGTGAATATTGTGAGAATCAATTTACGGTGAAGCTGCT
GAAGTGGTTTTTCTCAATGGAAATCACATACCTTTCCAGAATTAGCTTACCGAAAGGAGATGGTG

AGAGCTGACCTAATTAACAAAAAAGTTGGAATCAGAGAACTCCAGAAAATCTTGCCAACTTCT
 GACCAGGATGTATTTAAATCAGAAGTCATAGGTGATGGGAATCAGATTGAGATTGAAATCCCTC
 CAACCAGAGCTGCATTATCCATGCATGTGATATTGTAGAAGATGCANCTATTGGCTTATGGATATA
 ACAACATTC

SEQ ID NO: 2193 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
 GTATCTTACAGGAGTATTCTTATCCATCCCGTGGAAAAGGTTGCTTAACAACTGCAGTCTCANAGA
 CGGGCGTTACCTTCGCGAAAATTTGACCAGCTTTTACATAGGCTTTCAATCAAAGCTTCTTGCTTG
 TCTGGTTCCAGGATCAAGAGTAGGGATACCACACTGTTTCATCACACTTTCAACATCTTTATCATCC
 TCCTTCANACACACATCACAGGCTTCAATAATTTGAGCTAAATCAACATGAAGTCCACCTTCCGAG
 TTCTCTTCTGAAATCTCAGCTCCTTTAGATTTTCAGATAAGCACGAAGCTCAGCAGCCTGATCTTCTT
 CACTGATGTCGATGAAGGCCGGGACGCTCATGGTGCAGGCCNNGGCACAGCGGACACTCCACTCG
 CAAGACCACGCCGACCGGAAAAGGGCCCCGCG

SEQ ID NO: 2194 ACAGTTTAAACAACAGCTGAAAGAACTAAAGAAGCAATGTGGTCTTCAAGCT
 GACAGAGAAGCTGACGGAACAGAAAGGAGTGGATGAAGATATAATTGTGACCCAAAGTCAGACCA
 ACTTCACCTGCCCCATTACAAAGGAGGAAATGAAGAAGCCAGTAAAAAATAAAGTGTGTGGCCAC
 ACCTATGAAGAGGACGCCATTGGTCCAGGCAAAAGCGGAAGAAAAAGGCCTATTGCCCTCAAATT
 GGCTGTAGCCACACGGATATAAGAAAGTCAGATCTTATCCAGGATGAAGCACTTAGAAGGGCAAT
 TGAGAACCATAACAAGAAAGGACATCGTCATTCCGAGTAGGAAAAGCCACCTGCCTGCAGGGAC
 ACCAGCAGCTACCTCCTACCCCACTGTCTGTTGAGAGCAGTGTGACCCAGCAGTTAGGGACTG
 GCTGCATAGCATACTTGTGGGGGTAAACTTGTGCTTTTATGTGTGCTTGAAAACATTTTTCAAA
 GTTTCACAACAGAAAATGCCATTATATTGTTTATTTTAAAGTGTCTATAATGTAAAATAAAACCT
 TTGATCTTCTGCAANAAAATAANTT

SEQ ID NO: 2195 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACAAGTNTCACAATGTTT
 ATTGATAGATACAAGTNTNTAAATCAGGGCATGAACATGGCTTGATAAATTAAGTANACTTAAT
 TTCAATACTATAATAGGAGGGACCAATTCAAATTTCTCACCATTGTTCACACCCACAAAAACCAC
 TTCAAGGGCATTAAACGATCTNTCAAACTGATCAGTTTTGTGCAAGTAAACCATGTTTNTTTTAAA
 AAGACTTGTGCACTTGCCAGGCTCAAGGATATTAATAATCTANACATAAAGGCCATTACTAGAG
 GTANAAATACAGGCAATATACTATTACGGCAACAACCATCAATTACAGTTAAAAATTTTCTGTAA
 CAACCAATGGATAATCAAATATTGCANCACTCAAGTNTTACTGAGCAAAGTGCATTTCTACAG
 TATTCAAGNGTTGCTATTCAAGTTTTCTAACTTAAACANCCTATGATACTGGCACAANAAGGC
 CTTGCAATAAACTGCCTCTGCTTGANAACCTTATGATGGAATTATTGCTGCTGCTNATATACTATCTA
 AACATTAAANATCCTCCTAAAATATTGGATGGNAGACTNTGATTAACTTTCCCTACAAAAAAC
 CTT

SEQ ID NO: 2196 ACGCGGGGTATTTATATACTTGGTTTTAAATTAGGTCATATGTTTACATGGTT
 CAAAATTCACAAAGAACAAAAGAGCATATAGCTAAAAGTATTCTTACCTTTTAGCCACACAGTTTT
 CTTCACTTTGTGTTGTCAATTTCTTGTCAAATCTTTCCAGGGAGATTTTATAAATATANAAGCAAGT
 GAGTTGTAATATATNCATGCATACACNCACACACNCACNCACTCNCNCACACTCACACACACC
 AANTAAAAAACCCNTTAAANAAAGACATNTTATCCTATCACTANAAGAAAATNTCCTACATGAAA
 NGAAGACANGGNAATTAAGNGAAGGAAAAGANNATTATAAACCTAAANNTNACCATTTTCAATT
 TNGCNGGAGTAAGTNTTAAATTATCATTTNGNTAGCNTTCGANTATAANTGGACTAACTTTTCAATC
 AAAAGAAACAGACTGNCTGAATA

SEQ ID NO: 2197 ACGAAGAAAGCATTTCCTCAAGCAATGAGTCTCTTAATGGAAAAAATAAAAGA
 GCAATGTAATTAACCTTTCCTTCAAAGAAAGGAAAGAAACCTAAATCTGTTATGGCAAATTTGGA
 AAGATAAATATTTCTAGTCCCATAATATGTGTTTGTGTTTACAAGATATGCTTGAATGATGCAAAT
 CTATGAAGCAGGGATCTGTGGCAATCCAAATTCATCCACCAGAACTCCATCCTTGTTTTTGTATC
 AGTGGGAACACCTTCTGGAATTGCAGGTGCAGATGCTGCCTCATCCAAATAAGAACTGTCTTCATC
 AGCCAGAAGCTCATCACTAGTGCATCCAACCTGCTTCTAAATCATCTTCATCCAGTTCTGGGGT
 GCCATAACTGCGACTCAGTGCTTCTTGATTTCATTTGCATCTTCCATCATATCCTCTAGCTGGTCT
 TGTAAATCCTCAATCTGGTCNGATCTTCACTTGTGTTGATGCTTCTTCAATTTCTTACTCCAGTT
 TCTAGCATCAACCCGTGGTCTTGGTGTCTTCAAAGACTGGATGGTATAATTGGGCTTGTTCAT
 GTTGAATGACTGTGGGGCAANATTGNCCGNTGCTTGCTCATACTTCTCTTNTTAAACTCC
 A

SEQ ID NO: 2198 ACTTTAGATACTTGGCATATTCTGGGTCTTTCCAGTAAAGCAAGTATTTAAGA
 TAATTAACAAAAGCTTTGTCTTTGAAGTAACCTCTTTGGGCAAGAAAATTAAGGNAATTTGGGTG
 GCTAAACATTGCACAAATTCCAACCTCAACTGAAACCGAAGTCGATTNCCAGCATCATCTGACTCC
 ATAGCAACAGCATCNGGCCATAACAAACNAAGACNCCAAATCGCCGCCANCCTGACAGAGCAAA

ACCCANAAACGCCNGCCCCNAGTTTCAANATAAACCTGACTNACTTANAATGAAACATANTAATT
AANNTGTTGCATGTCNNATTACTAAANTAT

SEQ ID NO: 2199 ACAAACCTGGTGGGTCANATCGTCTCCTCTAACATGACGCTACACTGTCGCTGA
GGAACACATTTAATAACACTTCAGAACTGAACTGAAACGTGGCACAAACATGACAACTTCCAGGC
ATGCCTTCAAGCATCTNCCTCANGAGGGATTTCGCAACCCCTNNACTTCANTGTGGGGAGGATTAC
AATTCTTTGGAAGAATAAATNAGTTCACACTTTAGNNACTTNTANNAAAAAATTGTNAGGCCAAAA
CATAGGTGGGTTTCATANCTCTTAACCTATNCAGGAACAAATTTGATNCTTACNTATTAACNACNT
TAATNCNTTCAATGTTGNAAT

SEQ ID NO: 2200 ACGCGGGATCAGACACTGGATCAGACACTAAACGAACTTAACTGTATATAAG
CAAAACAGAAGAGTCTTGTCCAACAGAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTGTAA
GAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTGGAAATGTCAAGCAAATTATGAATACATGACC
AAATATTTTGTNTNGGAGAAGCTTTGACCACCAATAAATTTNATNCCTTNCCTTTTITTTINGAATG
GCACCAGNTTTT

SEQ ID NO: 2201 ACCCCTTAACCCCTTCTCCTTACCCTTAGCAGCAAGTCCCCTTTTCTAGGG
GGCAAGAAACCCCAAACCCCTTCCCTCCGTGTCTTTACGCTCTCTTTCTCTGGGTTTGCTTCCCTC
ACTATGGGCAACCTTCCATCCTCCATTCCTCCTTCTCCCTTANCCGTGTGTGCTCAANAACCTAAAC
CTCTTCAACTNACACCTGACCTAAAACCTAAATGCCTCATNTCTTCTGCAACACCGNTNTGGCCC
CAATACAACTTGACAATGGCTCTAAATGGCCANAAAAATGGCACTNTCNATTTCTCCATCCTACAA
GGACCTAAGTANTTNTTGTCAAAAAAATGGNCAAATGGACTGANGTGCCNAGATG

SEQ ID NO: 2202 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCANAACCTTTCCTCAGCATCAGAT
GATGATGANCCACTTTGTATTTCTTAGTATTTCTCTTTGAACTTAAATTTCTTCTTCCCTCAATTC
TATTCTTTTCAGTCTCTTATCANAANAGTTACAACCATCTTNTTTCATGGAATATTTCTCAGTNTCA
NATGATGAACAATCTTGTCTCTTCTTGAACCTCTTTCCAAGCAACTTGCACCTTTTCTTNTCTCTAC
CATATGCTCCATTCTTACTCTTTTTATCCTCTGAANAGTCACAACCTATCTCCCTTCCCTGTTGACTTC
TCAGCATAATCAGATAATTCATCCTTCTTTTTANAAGTTTNACTCTTATTTTTTTACTTTTCTTTTC
TCCATCAGTTGNCCATTCTTAATTTGTTTATGCCCTTAGGAAAATGACAAATTNCTTCTCNCTCA
GGTAACCTTTTCAGTGCCATCAGATTGAAAGATTCATACTGNNGGTTCCATTTTAATTACTTTTTNT
TAAAGTCTGGAAGGNTTTTTTTTTTNTTTCAGTTNCCTTTTTGGCTCNGNTATTATCATCTTNAAAAA
NTTNAATCGCTNTGGACTNTNTTAANGAAATATNTTGCANCCCCNGTACCTGCCC

SEQ ID NO: 2203 ACTCCACAGAGAGATGCAGACAAAGTAAACAATGAAGGTTGTTTTATAAAGG
TGATGACCATTATAGAGTCAGAAATGGGAGTCGTTGCAGGAATTTCTTTGGAGTTGCTTGCTTCC
AACTGATTGGAATCTTTNTCGCCTACTGCCTCTCTCGTGCCTTANCAATAACCTGTNTGAAAAAG
NGTAACCCAATGTATCTGTGNGCCTATTCTCTNTACCTT

SEQ ID NO: 2204 ACCTTCATCTTTACTTCCAAGTAAACCCGTGGATGATTTGATGAGGGATAAAT
GAACCTATTTCTTTTACACACATACCAAGGACATGCTTGTGGCTAAAGTGAGTTGATAATGTTGTG
CAAAGGATAGTTGTACCAACTCATNTCTTATGGTCCATAATGAAATAAAAAATTTGTATACTGT
TAATTCTGTAAACAGATGCATGTNCAAAAGATCTATGATGGTCTNGNAATCTTANTNTAATATNTT
TTAGATATTNTANANTTTTTNCNTCTTGAGGAACACATINTNTATANGAGANAATAACTT

SEQ ID NO: 2205 ACATAGTGTCGCGAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTAAAC
GGCACGTTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC
CCTTTTGTCTGTAATTGCACCAGTTTTAAAGCCTCCGGACAGAGCAGTATTTCTGTTAAAACTTTGT
TTTTCTTAAAAAGCTTACAGTGTTTGGCTAATTCTCCTCCCTTTTACAAGACGGGGGCCGGAGGGT
GGACACTGGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACAT
GGAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCA
GGAAATCCAAACAGCGATTACACCGATTAAACACCCCTTTATATATTTTACAAAAATACACTG
AGAAAATAATCAAACGTTTTCATCTCTCTTGTCTTTTTTTGTTTTTAAAGTGTCAAAAGTCTACA
TTTAAATATNAAAAATTAAGTAAAACTCTAGCCCTTCAGTGAAGGAGACGTAAAAATGGCGTGA
GTAACAACAACCTCAAAAAAATAAAAAANNGAAAAAAGAAAAAGGTCNTTGGCCGCGACCACC
NCTAGGGG

SEQ ID NO: 2206 ACATTCTGGGAGAATATCACTGACGCTCAAACCATTTTTTATTTCCAATATGTA
TTTCAATACATGTTTGTTCCTTTTCCAGTGCCACACACACACACAAAAACAAAAACAAA
ACAAAAAACAACAGTCACAAGTTGGATTACATTAGAATTGGTGCCACAGTTAACTTTTTAAAGC
ATTTAATAACCACCCAACCTTAGATTTTGCAGTTAGGGACTTNAAGTTCAGAACCAANAAGCA
GAGAATCGTTTCATGTGACATGATGTTTCTATAGACCTTGTCTCTAGGTGACAATGCAGAGCC

AGGGCAAAGGTGTTTAANCTTTGTACCTTCCACAGNTTTGTGGCCACATTCATATTTAGATAAGC
TCGGACCCTGCTCCCNCTTTCTGGAGATGGGGAGAGGCAAGNGTGTATGTGTTGNCATACTTACTG
CATTAATTCTNACTTCGAACCGTTNCATCAGCAGAATAAACCNAAATTGTTNANTGCAAA

SEQ ID NO: 2207 ACGCGGGGGTAACGGAGTGGTGCACCAACGTGAGAGGAAACCCGTGCGCGG
CTGCGCTTTNCTGTCCCAAGCCGTTCTAGACGCGGGAAAAATGCTTTCTGAAAGCAGCTCCTTTT
TGAAGGGTGTGATGCTTGGAAGCATTTCTGTGCTTTGATCACTATGCTAGGACACATTAAGATTG
GTCATGGAAATANANTGCNCCACCATGAGCATNATCACCTACAAGCTCCNAACANT

SEQ ID NO: 2208 ACTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
AAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATG
ACAAGAAAGGGATTGTGATCAGTCACAACAAGCATACCAAGAAGCTTTTGAATCAGCANAAA
GGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACTTCTCTGTGTTCTATTATGA
GATTCTGAACTCCCANAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAAGCCATTGCGA
ACTTGATACATTAANTGAANAGTCATACAAAAGACAGNACCGCTAATAATGGCAATTACTGAGAG
ACAACTTGACATTGTGGACATCGNATCCCNAGGGANACTANACTGAAGCNNGTTAAGGAGGNGG
AANNTAAACNGGCCCTTCCAACCTTTTGANTGNCTAATNCTAAANTTTACCACANTAAACCATTGGTC
ATTCATGCTGCCCCANANATAGTTTTTTGTTNCGATTTATCGACA

SEQ ID NO: 2209 ACAAAGGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAG
AGGCCCTGCCTCTACTACGTGGACAGTGAAGGGAACCGGATTTACAGGGGCCACCTTCTCTGTAGGT
TCTGGCTCTGTGTATGCATATGGGGTCATGGATCGGGGCTATTCTATGACCTGGAAGTGGAGCAG
GCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGAGATGCCTACTCAGGAGGTGC
AGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAATGTGGCTGATC
TACATGAGAAGTATAGTGGCCCTACCCCTGAAAGAGGGTGGATGCAGCTGCTTTGTTTCTTGGGG
TGACTGTCAATTGGTAATACGGACACAGTGACCCATCCTCCATCCTATTTATAGTGAAGGGCCTTC
AATTGTATCAAT

SEQ ID NO: 2210 ACTACAAGAAAGAACTTTTTATATGAAGGATTCTTTATGTAGAGTATCTTTTT
TGAAAAATCAGATTTTCTTATCCTATATTACACTGGTTTTAATTGGGCATGCTCACTTTAGTGGTGT
GCCTCATTACAATGTCTCTTTTGTGTTAAGAATTAACCTTACAAAAGCATTTAAAAATCACTACATC
AAATGGGATAGAGAGTAAGAAGACAGGAGAGAGAGGAGAAACCATGTTTTTTGTTTTGAGTCAA
GAGGGTCTCACTCTGTCACTCAAGCTGAAGCACAGTGGCACGATCTCGGCTCACTGCAACCTTAG
ACTCCCAGGCTCAAGCGATTTCTGGCTAATTTTTGTATTTTTAGTANAGATGGGGTTTTCGCCATGTT
ACCCANGCTGGTCTCGAACTCCTGCCTCGGCCTCCCAAAGTGCTAGGGTTCAGGCATGANCCACC
ACGCCCCGGCCCTGACACATATATTTAGTGCCATCTTTTCTGCATAAANTGTATAATTATTAGGGT
AACCGTGTNCANITCNCTGTCTTATTCCCAGTGCTTAACAGNNGGNGGCAAATAGTTTANTGATC
ANT

SEQ ID NO: 2211 ACGCGGGGGACTTTACCCAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAA
GCTGGCACCAGAATTTGCCAAGAGGAATGTTAAGTTGATTGCCCTTTCAATAGACAGTGTGAGG
ACCATCTTGCTGGAGCAAGGATATCAATGCTTACAATTGTGAAGAGCCCACAGAAAAGTTACCT
TTTCCCATCATCGATGATAGGAATCGGGAGCTTGCCATCCTGTTGGGCATGCTGGATCCAGCAGAG
AAGGATGAAAAGGGCATGCCTGTGACAGCTCGTGTGGTGTGTTTGGTCTGATAAAAAGCTG
AAGCTGTCTATCCTCTACCCACTACCACTGGCAGGAACCTTTGATGAAATTCTCAGGGTAGTCATCT
TCTCCAGCTGACAGCAAAAAAAAAAGGTTGCCACCCCAATTGATTGGAAGGATGGGGATAGTGTGA
TGGTCTTCCACCATCCTTGAAAAANAANCCAAAACTTTCCNAAANGGATCTTCACCAANAAGCT
TCCATTTTGGCAANAATTCCTCCGTTACACCCCAANCCTTAAATTCCTTTTGGAAAANCTTGGN
GCTGTNAACCCAAANGATGTCACTCCNATNTNTNTTNTCTT

SEQ ID NO: 2212 ACACCGGGTGGCATTAAAGGGGTAAAGATGTCCCCCTTACGGAGCAGACCGTG
TCTCAGGTGCTGCAGTCAGCCAAAGAACAGATCAAGTGGTCACTCCTTCGGTGAAGACCTCACTGT
TCCTGGCTCTTCATCCTCTTCAAAAAATTTGCATGTCTGCTGTGAATTTTCATCTAGTTCCCCAATC
GATGCTCTCAGGGTCATCTCGGGGATCAGAGGATCCTTAAATCTCCATTCTGTTTGTGGTTGCC
CCTCAACCTCCCCTACACCTTCTTATTTCTTTCTTCTTGCAAGTCTGGGAGTAAAGCTCCC
AGCATATTTAGATAAATAGGGCAGGGGAAGCACCCTCTTTCTTTCTAGACTGGATTATGCTCATG
CTCCCTTGCCCTGACATTTTTTGTAAATCTGTGCCCCTTTGCTGTAGCTACACTTCAGATTAAAGTA
GGANAAAGAATGTGCTGAATGTTTTCTCTCTTCTACCTGGCCCTCATCCAACAACCCANCA
AGGGGGAAAAAAGAAAGAANAATTTCTTTCTATAAAACAANTGGGGGCCGGGGATGGGTANGG
GATTTATCCAATCTAANCCCTAACCCANTTAGNGACCTCANGGTTTNTCCATTCTCTTACTG
CCCN

SEQ ID NO: 2213 ACTCTATGCATTCTATCTATACAGAAACACCTATTTATTATTACAGTTGATTTA
TGCAGGATTAACATTTTGGTGTTAAAATGTTAAACATCATGCTTACTGCACATCAACTCTCCATA
ATGAATCTGAACTTCACAATGATTTACCAAACACTTTACTTAAATTAATAATGAAAA
ATGCACCGAGCCAAACAAAACCTTAACTGGGCTATAAAGAAAAAACCCCTTCAAACAGTCCATAT
ACACATCTATTTCAAACACTACCTTTGTAGCTAGCCCTTTCCCAAAGTTTAGCCTGAAAAACA
GTAAAATCTACACAAAATTTTATTGCAATCATACAAGGGTTACATTAGGTCAACAAATACTATGAT
GCAATTTTACATTTATTAACACTACAGTTCAAAGCACAAATTTACACATTCTAAATACACTAAAACG
TTATCTAATGAAGTCACACTGGTCTTCTAACATTTGATATATCTGGGTGAAAGACATGAACTTTAC
AAANACTTTAAACACAAATCCTTAGTATAAAAACCTGTGTCTTGTGTTGTAACCGATTAAATGGGGGA
CCCAATTAATGGGCTTCCATCTCCCTTAAGTCATNCATTTTGGTGCATATTTATTTTAAACGCTTAA
GGGG

SEQ ID NO: 2214 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCACTGCTGCCACCACCATGAAANAN
TGGCCACCANATTTTATTGCNTACTCAGGTNAATAACTTATTATACAATGAACACTCCTCCNTTA
GGANACCATGCCACTTACANAATGCAGCCGTAANTGCGGTAAATNTATTTACAGAGGTNGGGGT
GCAANATNAAAGAANTTTCACCCCNAGNANTTTGAAGTGANAATGATCTACAAATNTCTGACA
AGGACCAACCGGGCTNGTGCTNNTGAGGTCTNAAAAAATTCCTGGCAAANCCTAGGGGGAGATTA
NATNTCGGAATTGACAGCAANTTTGGGGACANTGCAAANAANANAGGGGTGACCT

SEQ ID NO: 2215 ACCCTGGGATAGGGAGCGATCTCCGAGCGAGGCGGCAAGATGGACGCGGGA
TTTTTCCGCGGAACAAGTGCAGAACAGGATAATCGGTTACAGCAACAAACAGAACTACTGAA
GCAGCTGAAATTTGCAGAAATGCCTAGAAAAAAAGGTGGACATGAGCAAAGTAAATTTGGAGGTTA
TAAAGCCTTGGATAACAAAAAGAGTAACGGAAATCCTTGGGTTTGAAGATGATGTTGTGATTGAG
TTTATATTCAACCAGCTGGAAGTGAAGAATCCAGACTCCAAAATGATGCAAATCAACCTGACTGG
ATTTTTGAATGGAAAAAATGCTCGAGAATTTATGGGAGAACTGTGGCCCCTGCTGCTAAGTGCAC
AAGAAAACATCGCGGGAATCCCTTCTGCTTTCCTAGAACTGAAGAAAGAAATAAAACAAAG
ACAGATTGAACAAGAAAAACTGGCATCTATGAAAAAGCAAGATGAAGACAAAGATAAAAGAAGA
TTTGGGAAAAAATANAATNTATNAATNNNTNTT

SEQ ID NO: 2216 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAANAATGTAAAAATTTATTG
TATAAGTNTTGCAGCTTTTCAAATGTATCATTTGCCACTAATGATTACTGATACACAACAAGCAG
TTTNTTACAGGCCTGTGGATTGGCATCCAAATACANAGTCTTACCCAGCGGGGACNTGGGTGCCCC
CCCGCNTGCCACGGAAAGCTTACNTAANTTTAACTTGAACANANCTTGGGAAATGGGGCTGCAAA
GGAAAGCATTTCCACGCCAGGAACCAACGTGAAAGCNTTGAATCANCAANCAGCCNTGGAA
TCAGGCAGGCAGGGGAGGACGGGCTGTTCTCTNAGCTCTATAGT

SEQ ID NO: 2217 ACGCGGGGCAGGGAAGAATGACAGCCACAGGGAGATGGTGGTGGGCAAGAA
TGAGAGTCCCAGGATCCAGATTTAGCCTCAGATCTTCCCCATTAGGGAAGGGTTTCCATTTAACA
AGAGCACTAGTATGAAAACATTAGGGACAAAATCTCCCATGTCTTTGAAATTCGGATTCTCCTCTTG
AGATCCCCTTCTCACCTGCCAATCAACTTTATAAGGCCACAAGTGGTCACTGGTTTTCTTCCAC
AGGTTTGAGGTTCTCAGCTTTCTTAAGCGACCCAGCAGCTCCGCTGTTTTAGAGTGAATATGTT
AAGCTTTGATGAGATTCTATTTTCAGTAATTTAGTGCTTCTGGGACACTTGGAGAAAGCTGTGAAA
AGTCATTGTCTACGCAAAGAACGAAGCTGATCCTAAAAGTGATCCAATCTAAGAAAATGGTA
AAACGAGCTCTGGCCAGCACAAAATTTATGTGAGGAACTCANATTTTGAANACTTAACAATTG
CAGAAAAAGGTTGCAGCCTGCACACCATAGCCACCTNTCTGANCAACTTTGGTTTTGTGTGGTGA
CGTGGCACATGTTTGT

SEQ ID NO: 2218 ACAACCTGAATTGAGGCTTCTCCTTCACTGGAGTGCACCTGCCTCTACCTCAT
GGGTATAAAGTAGGAGAACTAAGAGACTTAAGAGGTCGTGGTTCCTATATCGTCCAAAAAATAGG
CTGTTACATATCCTAAAGACTGCTCAACAGCTTCAAGTTGAAAGTGGCCAAGGACAGCCCCTTAG
GTTTGGGAAGGGACGAGCCTGAAGGATTCTGTCTTACTGGGGTCAAATCTTAAAGCACACAGCT
CTGGACTCAAGACAGGAGGTTTTCGTCTGATGGCTTTGCCACACATTACAGGATAACTGCATAG
ATCCCTCGCTGCTGATTCACTTCTTACCATGCACTTTCCTTTGATGCTGAGGAGAAATGGAAGTGG
GCNAAAAATCTCAAGGCTGCTTCATGTGGACCTGTCAAGCTGCTCCTCCCAGCGTNAAATTTGT
ATCANGGTGCCAAAACT

SEQ ID NO: 2219 ACTGTGAACATGACTTTTCAAGATGCTCTTTGCCCCCTTGCTGTTCATCAGTGTGGT
GAATTCATCATTGGCCGAGTTATCAAAGCCATGAATAACAGCTGGCATCCGGAGTGCTTCCGCTGT
GACCTCTGCCAGGAAGTTCTGGCAGATATCGGGTTTGTCAAGAATGCTGGGAGACACCTGTGTGG
CCCCTGTCTAATCGTGAGAAAGCCAGAGGCCTTGGGAAATACATCTGCCAGAAATGCCATGCTA
TCATCGATGAGCAGCCTCTGATATTCAAGAACGACCCCTACCATCCAGACCATTTCAACTGCGCCA
ACTGCGGGAAGGAGCTGACTGCCGATGCACGGGAGCTGAAAGGGGAGCTATACTGCCTCCCATGC

CATGATAAAATGGGGGTCCCCATCTGTGGTGCTTGTGACGGCCCATCGAAGGGCGCGTGGTGAA
CGCTATGGGCAAGCAGTGGCATGTGGAGCATTTTGTGTTGTGCCAAGTGTGAGAAACCCTTTCTTGG
ACATCGCCATTATGAAAGGAAAGGCCTGCCGTATGTGAAACTCACTATAACCAGCTNNTGGNGA
TGTTTGCTTCCCTGCAATCGNGTATANAAGNGATGTGGTCTCTGTNTTATAAAGGCCTGGTGCGT
GACTGNTT

SEQ ID NO: 2220 ACGCGGGCGGGTAACCTCCAGGAGAGTGTACAGAGCAGGACAGCAAGGAC
AGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCT
ACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAG
TGTTAGAGGGGAGAAGTGGCCCCACCTGCTCCTCAGTTCAGCCTGACCCCTCCCATCCTTTGGCC
TCTGACCCTTTTCCACAGGGGACCTACCCCTATTGGGGTCTCCAGCTCATCTTTCACCTACCCC
CCTCCTCCTCCTTGGCTTTAATTATGCTAATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTG
CCCTGTAAAAAANAAAAA

SEQ ID NO: 2221 ACTTTTTTTTTTTTTTTTTTTTTTTTAAAGTCAATATAGTTTCCATTTTTACTGTGC
ATACACATATATACAATGTATTTTAAAAATGGGCTTACAATATGTAGTTTGATCACTTGGTTTAC
AACTAAATATATTGTGAACATTTTGTCTTCTACAACAGTTAAANAATTGAATAGCTTGGAGGAAA
CACAATTTATTAAGCAATCTTGTGGGGACATTGAGGTATAATTTTTTTTTCTAAGGAGGCTTCATT
CTTTTTATAATGCCCTTTGGGAAAAAAGGGGATTTCTTGCTTATATAGCTTCTATAGATGATGGA
AACTNGCCCTTCCATTTANCCCTTTTACTTGCTTCTTACCACCACCTAATCACCAATCAAGTAACC
CATTTTGTTTTCAACCTCTCTCTTCTATTGCTTCCTCTTTCCTACCCAGTCTCCCTGCCACACGCA
NATGGACITCCATTCCITCAACACTCTGGTTCCTCCCTTAAAGATGTTTCTTTCTTTTAAAGANA
CTATTTTAATTGATTTTGTCAACTCTACTCAAAACTGTTTNTAAGGCCACATTAAATANTCTCC
AATAATCTGAACATTTAAATTCAATCTTTAAAAAAACTTNTTAANAANACCTTGGTANAATT

SEQ ID NO: 2222 ACAGTTTTCTCAGAAGACTCAAGATTTGCGCCACATCCCTTTGAGCTCCCGCT
AGATCTGCCGCCCGGCTGCATTTGTCCCACTCTTCAGGACAGAGTTAGCTGCCCTCTTCTTTACTT
CATAGTCTTTGTAAGGGCTCGGCCAAGCGTGGGCCCGTGGGATGGAGAATTCCTTTTGGGGAGGC
TGGTCTGCGAGCTGAAAATGTGTGGAATAGGGGGCATAGAGCGTGTCCCTGTCTCTTCAAAACCT
TGAGTGATTTCTCTTGAGAGTAGGCTCTGTTCTCCACCCATAGCTCTTCTTCAGAGTTGAGGTT
TACAGAAAGCATCCTCAACAGGATAATCCATGGGGTTTCGTTGCTTTGTGAGCAGCCAAAACCTG
GGACTAACATAAGCCAACAGGAACACCCACCATTGGCAGCCAAGGCGGAGCTGAGGATGGTGTC
ATCCCACTGCGGCAAAGTCAGGAACATGAGCAGGGTGATCCANGCCACCCANATGGCAATGGA
AAGGANCATCGTGAGGTANATGTGGCCCCATGTTNTTCCANCCCGNGAAGGACCACANAAGGTG
AAGGAGGACATGAGGAAGGGCANCGCCCTTCAAAAAAAGGACTN

SEQ ID NO: 2223 ACTGCCTTGGGGCTTCTTCTCTCTCCTGTTTTCTCCTCTCGAATTCTTGTCTTCTT
AGCAGCACGTTTGGCTTGTATCTGTTTCATATTCTTCTTGTGCTTTTGTATTTGATGTTTTCTTTTAT
TTTTCTTTGGAATTGTAAAGGAGTTTACTGTTTTAATACATTGTTCTTCTGGCTGAGGCTGGTCAAA
GCTACACTGATCTTCAAATAAAGGCTCGTCAATGCTACACTGTTCTTCAAGCAACGGCTGGTGAAC
TTGTTCTGACAAAGGATGGTCGACTTTTCTTGCTTGCTTCTTATGTCTTCTCTTCAGCTAAATAGA
GATGTTTCAGATTATCTGGGTATCGATCTGTGAATTGAGATTCCAGTGACGTTTGANCCTTCTTTTC
CTTCCGTAGCAATTTCTTGTAACCTTGTGCTGATTTTCAAGTTTCTTNGAAAAGCAAAGCCTTGTC
CTCGCGAACGCTCCCCACGAAAGGCTTGGGGGTGGTTAGGCCNCCATGTCTTCTGNCTCACATTCT
TATCCTGTACCTCGGCCGAACCACNC

SEQ ID NO: 2224 ACCTAATGAAAAGATCTCCAAGAGGTTTGTCTCATTCTCCTTGGGCTGTAAAA
AAGATTAATCCTATATGTAATGATCATTATCGAAGTGTGTATCAAAAGAGACTAATGGATGAAGC
TAAGATTTTGAAGCCCTTCATCATCCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGA
TGGCAGTCTGTGCTTGTATGGAATATGGAGGTGAAAAGTCTCTAAATGACTTAATAGAAGAAC
GATATAAAGCCAGCCAAGATCCTTTTCCAGCAGCCATAATTTAAAGTTGTTTTGAATATGGCAA
GAGGGTTAAAGTATCTGCACCAAGAAAGAAAGTCTTTCATGGAGACATAAAGTCTTCAAATGTT
GTAATTAAGGCGATTTTGAAACAATTAATCTGTGATGTAGGAGTCTCTTACCCTGGATGAA
AATATGACTGTGACTGCCCTGAGGCTTGTTCATTGGCACAGAGCCATGGGAACCCAAAGAAGCTG
TGGAGGANAATGGTGTATTACTGACAAGGCNNACATATTTGCCTTTGGCCTTACTTTNGNGGGAA
ATGATGCTTTATCGATCCCCACATTATCNTTCAAATGATGATGATGATGAANATAACCTTTGATNA
AAGTGTTT

SEQ ID NO: 2225 ACTTTTTTTTTTTTTTTTTTTTTTNGNATTGAGTTTTTATTGATGATTCTATGTG
TTTTTAACAGAGTGTGATAGGTGAATTAACATATTAAGAGTTCTATAGCATCTGTTCAAAAAA
GATTATATACTATACAACTATTCAAGTCATACAAACCATTTTTTCAATTGTCTTTCAAACCTGANAA
NAATCCTATTACAGCAGCTTCTCCTCCTGAGGNGGTTCACTGAGCAAGCTTTGCTTTNAGTTTTT

TATTTTCTTCTACAATAGCTTCATACTTCTCTTTCAATTCGGCCAGTTCTAGGCGAAGCAGCTCTAT
 TTCTGGATTTTCTGGAGTAGCANCTCCTAAGTGATGCTTTAAAAAATCCAAAGCACTGTTAGGTTT
 CTCTGGTTCTTCATATAAGGCTACCAACACCTTGGTCAGCGTGTCCACACCCCNACTTCTCCAAG
 T

SEQ ID NO: 2226 ACATCACAAGTGATAACTTCAGCTTTACCACCANAAGCAGCTTCAATAGAAA
 CATCAATTTTCCATCTGACTTCTTGGTAGCACCAGTAACCTTTGTATTCAATTTAAATTTAAACCC
 CTGTTTTTGAAGGATGCGTTGAAAGTTTTAGATATCTCCATATCAATTCCAACCTCACCTACATGA
 CCTAAAAATTCAACTGCTGTGCACATCTGCACCAAGTCTTTGCCAACTGAACCCAATTCTACACCT
 ATTACTCCTGCACCAATAACAACCATCTTTTCTGGAACTTTTTTAANAGATAAAGCACCTGTAGA
 TGACACTATTGTATCTNCATCTATCGTGATTCCAGGAAAAGGAGTAACCTTCTGAACCCGTGGCTAT
 AAAGAATGTTCTTTGTATCAATAACCTGAGTGCCGNCATC

SEQ ID NO: 2227 ACGCGGGGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCCTCCTACGTT
 TACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTC
 TTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGT
 GGCCGAATCTTCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGC
 AATGGAGTGTGCATTACATTTGGAAAAAATGTGAATCAGTCACTACTGGAACCTGCACAACTGG
 CCACTGACAAAAATGACCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGA
 AAGCCATCAAAGAATTGGGTGACCACGTGACCAACTTGCAGCAAGATGGGAGCGCCCGAATCTGGC
 TTGCGGAATATCTCTTTGCAAGCACACCCTGGGAGACANNGTATGAAAAGCTAAACCTCNGGCT
 AATTNCCATAGCNCGTGGGTGACTTACCTGGTCACNAAANGCATTGCATGCATGTNGGGGTTTC
 TT

SEQ ID NO: 2228 ACTTTGTTTGCTGATACAAGGTGAGCCAAAGGGGTGGTGAAAAGAACACACA
 AAAAAGGATCTTTGTCTAACCCAGAAAGGTTGAGAAATTTGCACTGATACTTAAGTTCTGAACCTCC
 AGAGGGCTGCTAATCAGAGCTGGGATCATTGCAAGACAGCCTTACTTTTTCCAAAGTAATTTAT
 ATTTAGTTGTTGATAACCAAAAAAATGTCACAAGAGTAATACCTACTGTAAAAGTGAGGTTAGAA
 GATTCCTGGGTCTTGTGACCTAGGTTAAATGAAGTATATACTACAATAGATTTTGTTTTGTGTTT
 GCTTTTGGAAGTTCTGTGCAAAAGCTACCATTCACAGGATTAACGAATACCTTTACATATGCTAGT
 TTTTAAAGTGTCTGTTTGATTGCAAAATTANTTTANCTACATAAATCCTGTCCCTTAANCCATANT
 TCACANATGTAAAACTGCAGTTTTTATANATTCA

SEQ ID NO: 2229 ACTCATTAATAATATTAATAGGCGCTTGACCCACAGGCTGTCAAAATTCGA
 GCAGATATTGAAGTGGCTTGTATGGTTATGAAGGCATTGATGCTGTAAAAGAAGCCCTAAGAGC
 AGGTTTGAATTGTTCTACAGAAAACATGCCCATTAAGATTAATCTAATAGCTCCTCCTCGGTATGT
 AATGACTACGACAACCTGGAGAGAACAGAAGGCCTTTCTGTCTCAGTCAAGCTATGGCTGTTAT
 CAAAGAGAAGATTGAGGAAAAAGAGGGGTGTGTTCAATGTTCAAATGGAGCCCAAAGTGGTCACA
 GATACANATGAGACTGAACTTGCNAGGCATATGGANAGGCTTTGNAAGAGAAAAATGCCNAANTT
 GGTGGAAATGATGATCTNAAGANATGGAACCAAGCTGAAGATTTACTTTGTGGGGAAACATAT
 CNNATTAANGAACACANANCANNCTTNNTGGCTGTAATCCTANACTTTANAGNTTTCAGTTTTTG
 ANAACTTNAAGCTGAATATTATTGATTTTCTAAGTATTNAAANGTTCTANCAGATNAAAAAAT
 GAAATGCCCTCCTAAATTNCAATTGTGNACACATATNCTTNNTNNATTTTTNCTTTTTTANGGANT
 GCCTCTGTCCNN

SEQ ID NO: 2230 ACAGAGATAACAGAGGTAACATAAAATACAATCCTTGTTCTTGAGGGGCCAAT
 CTAGTGGGGAAATACATTTGTAAGGAGAGATACTCCAATGAAATTTGGTGTCTCCAGAGAAGAAT
 GCACAACCTGCCATGAGAAAACAGAGGAGGAAGCAGCTGATATTCTAATAAAATTAAGCTGGA
 GACATTTTAAAAGTAGTATAGCTCAGCTTCCTCTTTTACAGATGAGAGAATCCAGGTCCAGATAAG
 TCATGTGACTTATTCAAGGTCATGGCACATTTGTGGCAGAGCTGGGTATAAAGCTCAGAACTCGAT
 TTCCAGCTTCTTGTGTTTGTACACAGAATATGCAACAGGGATTGAAACAGGAAGGAATAAAGATTT
 TGCATCAAACAGGACACAAAGCTGGAATGAGAGTACTGCATCTAGATGCTGGAAGAGAGTCCTGG
 ACTGCANAAATCCAGGGATGGCCTGNTGCANGCAGACCTTGTGTCTGCTCTGTAATTGGGAGCTTG
 ATTCCATTCTATGCTNTGACNGNCCCTNCCCTTCANAAAGTANGTTTCTGTCCAAAANCCNNGTT
 TAGAGGGATTNTG

SEQ ID NO: 2231 ACTCCTCAACAGTCACAATCCATCCTAGTATCTTAAATAGTGATTTTTTTTTAA
 TTTACAAAAGAGGTTTATTGGACTTACAGTTCCACGTGGCTGGGAAGGCCTCACAATCATGGCGG
 AAGGTGAAAGCCACATCTCACATGGCAGCAGATAAGAGAAAAAAGGTAGTGATCTTTTAGTAAA
 GAAACCTGAGACTGGTAGTGGGCTTGGAGCCAGAGGATCGCTTAAGTCCGGGAGTTTCAGATCAG
 CCAGGATAACAAATTGAGACCCCCCCCCAATTTAAATTAATAAAGGAAAGAAAAATAGCTGG
 GTGTGGTGGCTCATACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATTGCCTGACTCA

GGAGTTTGAGACCAACCTGGGCAACATGGNTGAAACCCCTGTCTCTACTAAAAACATAAAAAAAATC
 ACCAGTGTGGTNGCNTGCACCTGTNNNCCCATTACTGGGAGGCTGANGCACAAAGAATTGCTTT
 GANC

SEQ ID NO: 2232 ACGCGGGGGTTTTTAAAGGAGAGCCTTTCTGATGCCACTTTTCTGCTTGACA
 GGCCGGACAGTGGCTGTGGATTGGGCCGTGGCAAAGGATAAATATAAAGATACACAGTCTGTTTC
 TGCTATAGGTGAGGAAAAGAGCCATGAATCTAAACATCAGGAATCAGTTAAAAAGAAGGGCAGA
 GAGGAAGAGGATATGGAAGAGGAAGAAAACGATGATGATGACGATGATGATGATGAAGAAGATG
 GGGTTTTTGATGATGAAGATGAAGAGGAAGAGAATATATAATCAAAGGTGACCAAGCCTGTGCAN
 ATTCAGAAGAGGTAAGCANCTCATCCTGTTCTGAGACNGCTNAGGAAGATTTCATGATTGTCTCCA
 ANAGGAAAAAATCTNCTTTTTNTGCCTGCATCATTGCAGAATAGACATGNTTNTATGAAAATTGAAT
 AGGCCCTNTTGNCANCCCACCTCNTTNTTNTGATCTGTGCCATTGCATAATCATCTTTAAACCA
 GCCTCTGCAAAANTCTTNTATNNTTCTGNAGGANACATTGACCTANATGTNAACCTTTTTTTTGTG
 TNGATATNAACTGGCTCNTNTTTNTAACT

SEQ ID NO: 2233 ACTAAATATTGCTGAGAGCATCCACCCAGGAAGGACTTTACCTTCCAGGAG
 CTCCAAACTGGCACCACCCCCAGTGTCTCACATGGCTGACTTTATCCTCCGTGTTCCATTGCGACA
 GCAAGTGGCAGTGTCTCCACCACCTATGATGGTGATGCAGCCCCANAAAGTGGCTTTCACCACCTC
 ATCCATGAGAGCTTTGGTTCCCCGGGCAAAAGCTTCCCATTCAAATACCCCCACAGGACCATTCCA
 CACNATCTGCTTAGCCCGAGTGACATGCCTCANNATACTTNTGCTGCTTTNAGGACCACANTCAA
 GCCCCATCCANCCAGCANGTTTGGCCANAAGCCACAGTGGCTTGGCAGTNTTGGCATTNTCATGAAA
 CTTTGTANCAGTGGCAAAANTCAANAGGCAANGGTATNTCTTNACNCCTTTNTTNTNATCTTNGG
 NNCATTAGGTATTNTNACAATTTGGNNTCCTTTTAATATAACATGAAAAGTGNCAATCTCCATNTT
 NTTGAANNTCTNAANGNAAGGTAAAAACCTTCCACCCACNATNATTCATCACATTGACTNAGCCC
 ANCATATTNTTNGATAANCTGGGATNTTGTNTGAANTTTTANATNNCNATNTAGTCAAGAAANG
 TTTATATG

SEQ ID NO: 2234 ACGAGTCCCCTATGCGCTGCCCTGGGCCGCAAGAAGGGAGCCAAGCTGAC
 TCCTGAGGAAGAAGAGATTTTAAACAAAAAACGATCTAAAAAAATTCAGAAGAAATATGATGAA
 AGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGAGGAGCAGTTCCAGCAGTGCAAGCTTCTTGC
 GTGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGGCAAAGAGT
 TGGAGTTCTATCTTAGGAAAATCAAGGCCCGCAAAGGCAAATAAATCCTTGTTTTGTCTTACCCA
 TGTAATNAAGGTGTTTATTGTTTTGTCCCCCTTTTANTANTTTTNTNTNTAATTTNNATNTTNGNT
 NTATTATTNCTTTNAGTAATATATAAAGNTCATGTGTNNTTTCTNGNTT

SEQ ID NO: 2235 ACCTGCACGTCTCATCGTTTTCTGCCGAAGCAAACACTCTACGAAATCATCAT
 ATTCTATCTTGCACTCTTCTCTGCCGAGTATAACCGATTCCATGCGCACATTCTATCCATTCTTTT
 TCAAAAGCATGGCATCGACACCATCTTGTAGGGCTGTTCAACACTCTGGATTGTCAACCATCGA
 TCTATGTTAAGGCCGAACCTTTTCTGGATGTCCAAGAAAGGCATGGCCGATGCTCANTGCCCTTGA
 CTNTTTTTTGGCCGCCGNTTCAGAAAGACTNGCTAGCGACNGCTGGACCGTCTTGCCGNAANG
 CCCCNTNTACCTGCCCGGGCAGGNCGCTNTAAANGGCNAATTNCAAAAC

SEQ ID NO: 2236 ACTTATACCCCTAAATATATAAAACATTTTTTAAAGAAAAAAGGAAGAAA
 CTATTCATACATGCAACAACCTTGGATGGATTTCAGGGAATTATGCTGAATGAAAAAGATCAGC
 CTTGTAAGATTACATTCTGTATGATTCCATTTCATACAAACATTCTTGAAATGACAAAATACAGAGA
 TGGAGGACAGAACAGTGGTAGCCACAGTTGGGGTGAGGGTATAAGAAAGGGATGTGGCTGCGG
 CTGTAAAAGGGCAGTGCAAGGGATCCATGTGACAGAACTGTTCTGTCTCTTGTGATGGTGGTCACA
 TGAATCTACACATGTGATAATATTGCATAGAATTAATACACATACACGAAAAAAGTTCAAGCAG
 TTGAGCACAAATATTTAATTGTCTAAAATGACATTTCTTTAAGAGTTATCTACAGTTCAAAGCTC
 ACTTTTATGAGGTGTACATCCATCACCATTTAAGAGATNTNAAATCATGAAAAGATATCCCCNA
 ANCTTGTAACATTTNACTAAGGGTAANANAAAGTTAAGGGTGTTC

SEQ ID NO: 2237 ACTAGGACAGTCAGTAATTAATGCATCATTCAGAGGATTATGGCTGTTCTTA
 AGAAGTGCAAGTTCAAACCTGTCAACACCAGAGGTAATCATTTTATATTAATTTATACGTAATACC
 ATTTAAATCTTTATCTGAGTATAACATATGAAAACAGTCTTCCACAAGCAAAAATGTGGAAACA
 TTTAAAAAATAAGGAGTCATTTTTTAAAGTAACTGATCAGATTCACAGGCTACTCTTGGACAGGA
 TCTTGCTGGATAGAATCCCTTCATTTGGTGGCTTTTGCATGCACTTAACTGGACCAATTCTTCTGT
 GTGTTGTTCTAAGAGCTCACAAAACATAGATCATGCCATATAGGTAGTAAAAAATGCTAGAAG
 ATAAAAAGCTAATTTGCACCATCCTTCCTTCTGACAATATGCTANAATATCTGCATTTCATGATGGT
 TGTAGGGTCATAGAGTCCTGGCCCTCATCTGCTACTCATATACCTCCAAATATGATATGCCA
 AGAGGGGCATATTGAGACCCAGTGTAAGCCACTCTGCTGCACAAAGAAACCTGACACAGAAAG

AAAGCGTGGATGANGTACCTGC

SEQ ID NO: 2238 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATCCACACCTGCCCTTTATTG
GTCTNTTNTANCAAAGNGGCTCCAGGCCCTTCACNCCTTTNAAACACCAACCCATGAGGGTTTAGGA
AGGTGCCATCATTNTGTGAAGGCCCAAANCTTACCCAANTNTTGGANCCCAAGTTGAATCACCAA
CCAAAGGGTTGGGANAGGAAAAGGAAACAGGCANAGGGGAAAGGCAAGGCTCTNAANTNAAGG
GGACTGATNTNAAGGGAATGCTGAGGTCCAGCAGTGT

SEQ ID NO: 2239 ACCTGCTATTTTTGGTAATGATCTTCAGGCAGATTTGGCCCCATGGAGTTTTT
GTCAGTCATGAGGGTTTGAAAGGATGGCGTATCTTCCAGCTGAAAAATCCTGGCAAACCTACAA
GCTGTCCACAAGAAAGCAAAGCAACATGTTTGAAGGGGTATGGAGTGCTAACTCTGTGCCACTTT
TGCAAGCAATTTTGCTCAGTCTGTCAATTGTATTAGCCTTAACAAAACCTCTTGTAATTATAGACGTT
TTTATTCAAAAATAAGATCTTACTATTATACAGGTTTCTCTCTTTGACTATATACAGAAAGTGCAAAA
AGTCAACCTTCTCCCTAGACGTTCCAACATGCTAAATTGCAGCATAATCAACCCCTCAAGAGTTTGC
ACACACGCTATAATTTTCATTACGTAAACTTTGAGTATTGGATTATCAACAAAAAGTCCCTTGTTTC
TATTTATTGATTATGCAGCTTATTTATAACAAGGCCTGATACTCAGGGATTTCAAAAAATATTTAA
ACAATATTTTAACATTTTGAAATGGATACAGTAANAAAAATAAATTTTATTCTAATATCTAGGATCT
AAATCTTCTTATNATTACCTAATTACAAACAAAATAAATTATCAAAATNTTACTCAATTGNCTGCN
G

SEQ ID NO: 2240 ACTTTGACCCTGGAAAGGTATGGGTCTGCTTAAAAGAAAGAAGAAACATACA
CGTAATCACAATAAAGCTTAACATTATGCAGGGCTTATAATCATTTCAGCAACGGACTGCAAGCT
GCACTGTGAAGAAAATGCATAGCAGAGGAGAAAGCTGGGGATCTGAGGAAATAGGTAAGGAAAA
CAGTGTCAACACACAGTGGAAGAAGTGATGAAGACATCTATTCCGGAGCTCACGTGCCATGCCCT
GCTAGCCGTTCTTAAACAAGCCACCTGCTCCAGAAGGCCACAGCCTGACCCTCCCAAGTGGAATA
TAAATGCCCAAGTGCCACATGAAGCCACCTCCTCCACTACCTAAAAAGCTGTCTGGGAACTGAGC
TACANAACACACACACTTTCTGGTCTAACAACATTAAGTGAAAGAATTTTCTTATATATCTAT
TTTTTAATACAACCTTAAACGCAACTTTTATATGAATTTGGGCTTCTATTCAGNCCCTCCCTCAATTT
CCTTAGGANGAACTCAATATTGGAANCNANNAAAAAACAAAGATTCTAACCCAAAATGACTTGCCT
TTTAACTTATTATCATTITTTGNNGGACANNAGTNTNATNTTTTCCATTACCAAACCTTAAAAAAAT
NTNTTAT

SEQ ID NO: 2241 ACCTCACCCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCT
GGGATTCCTCGGTTCGGAGGGCCTGGAACCAGCCTCAGTCTCGAGGCTACAGTCATGCCCTACCTTC
AGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGCCCAGAGAGCAAAAAGTCCCTGAGATT
CTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGTGCGTTTGAAGACCA
CGAAGGACTGCCACAGTGGTGAACCTGGTAGACAGAAACACCTTATTTAAAGAGAGAGAAGAA
AAGAGACGGGTGGAAGAGGAGAAAGAGGAAGAAGAAAGAGGAGGCGCGGAGGAAACAGGAAC
AAGAAGCAGCAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTGAGAAACCGACA
AATACTCCAAGTTTTGATTAAAAATGTAAGCATGGTCTGCCACACATGACATGGAGGGCAAAAGAG
CTCAGCNAAGGGCAAGCCAAGAAGCTGAANAAGCTNTTCGAGGCTNAGGAGAACTCTANANGGA
ATATNTGCANATGGCCAAAATGGAANCTTCCANTGAGGGGGCNCAGGACTGACTTTTTTAAACAT
TGGGACTATTGCCTT

SEQ ID NO: 2242 ACGCGGGGGGAGTCGTTGCTGTTGCTGTTTGTGAGCCTGTGGCGCGGCTTCTG
TGGGCCGGAACCTTAAAGATAGCCGCAATGGCTGAAAATGGTGATAATGAAAAGATGGCTGCCCT
GGAGGCCAAAATCTGTCAATCAAAATTGANTATTATTTNGGCNACTTCAATTTGCCACNGNACAANTT
TCTAAAGGAACAGATAAAACTGGATGAAGGCTGGGTACCTCGNCCNGCTACCAC

SEQ ID NO: 2243 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGTTTCGTTGTTTTCANAGGCTTTTGAAC
CTTGATCCTCACTGTTATTCTCTTTAGGACTGTTACTTCCTTGTTTCATCATCACTGAAATTCAGT
TGCTCTGTATAATCTACTTCCATCTGAGCACCTGCCAAACCTTCATCAGCTTCAGCATCTAGGTTAT
CAAATTTATCAAGCTCCTTCAGTCTGATGCACTAAAAATGGATGGGCGTTCAGGCTCAAAGGCCC
ATGAAGGAGGTGGGCCTCTTCCTCNAAGGCCTTTGTTTGTTCAAATAAANAAGGTGGGAATCTCA
TGGGACCATGTANAGGAGGATATGTCATCCTCGGATACTGTTGGAACATATAAGGAGGCATCATA
GCTCTATACTGGGAAGCGAGAGCAGCCTGCTGTCCATTCAAGTTTACGCTGTGGAGGACCACAAGC
TATCTCTTTTCCACCACTTTGAGGATATCATTTTGCTNTGATGTTCCAACCTGNGCTTCATNCTGCC
AGGGAGCTTTTTCATCTTGATCAAATGACNAAAGGNGAGCCATCANCCTTACCACATNTTCCAAC
AAGCAAACATTTGGNGGACGTAACCTGGTCCAGGTCCATANNTGNNNTATTTGNTTCTTTTTTTT

SEQ ID NO: 2244 ACACAAAGAGGGGGTGGGTGTGGATGCAGAGTGTGTGGCCTGATGCTCCAC
GGCGTGCAAGACGGGGGGCTAATAGTAGGTTTCTTCTCCACCCAGCTGCCAGGGCGTCGCCTGA

TGATGAGTTTCTGACTTCGTTCATATACGAAGATGAGAANAGAGTAGGGGAAGGCACANAACCAC
CAGGTAGGTTTGAGGGGATACATCCTAANACAACACCCATTCCANGGCAGTANGAAAGGAAAGC

SEQ ID NO: 2245 ACGCGGGGAAACAATGAATCAGAAAATTTTCAGTTCTAGTTCACCATTGACTT
TACCAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTCTAAATCTTCCAGAGCTGCACACCAG
GATTTTGCTAATATAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAG
CAGCGTTGCCGCAGCGCTGCACAGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAAT
AAAGCAATTGAACCTGGCCATGATTAACATATGTTTTGGTCGTCTATGGACTTGCCATTTCTCTCCTT
GGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACCAAGTTTAAGAGGATTATTGAACACTA
CCCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAAAGTATATTTGAAAAAAACA
GATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTATCGTCTTCTGGAGTGT
TAACTTGGCCACGAGTAATGTGATTATTGAAAATCTCANCCCCAAAAATAAAGATGCTGTTAGA
AAAATTTGTTGAAGAATGCAAGTCCCTCCANTGCCAGATGCCATTTNTTGCTATCAAAAAGTGCCA
TGGATTTTCT

SEQ ID NO: 2246 ACTGGGTCCTTCCCAAAGGGAGAGAGTCTCCTGCTGGCTCTGAAGAAGTGAA
CTGCCTTGTGAGAGAGGGCCTGTGAGGGGCCATGTACACAAGCATCCAAGGGTCATGCCTAGAAG
CCAGAGCAGCCCTCAGCTGACAGCCAGCAAGAAAACGGGCCTTCANACCTATGGTTACAAGAAAC
TGAAAGCCACTAACAGCCATGTGAGCTCGGAAGAGGACCCCAAGCCTGGCCAACCTCTTGTGCA
GTCTTGTGAGACTCTGAACAGTGGACTTCTCCCCAGACTCCTGCTCCGTGGAAACTGTGAGAAGAT
AAATGAATGTTGTGTTAAGGTGCCAAGTTTGTGGTAATTGGTTGTGCAGCAGTANATAACTAATGC
ACTCACAAAAGCCTTTTTCTTGCATCAAAGCTGGATCTCTGATGGCTTGCTCCTTACAAGGGAAN
ATGGAGCAATANCAGNGCAGGGGGCATTACAGGCTCAATTGGCCCCATGTTTATCACTGGGCTTGTG
GTCACATGTATTAAATTCCTGNGGAGT

SEQ ID NO: 2247 ACACTGTATACATCTTGTTCATGATGGTCTTTACCAATGGCCCAATGTTCTTGT
CTTCCACAGCAGCTTCCCCTCTAAAAATCGGCTCCTATCATTTCCAAACATCATGGACTGGTCCT
GCAGATCACATTCACCTCCCTGGTCACAAATAGGACAGTCCAATGGGTGATTGCTAATAAGAACT
CCATCACACCTTCCCTGGCTTTTTTGGATTTTCTGAGTTTGTAGGATATTCCAACCTTCATTACT
GGCATGGCACAAGCAGCTACAACCTTAGGGGCTTTCTCAATTTCAACAAGGCACATCCTGCAGTTT
CCAGCAACAGACAACCTTTCATGATAACAGAATCGAGGGATCTGCATGCCAACCTTCTCACAAGC
TTGGAGGACGGTCTTCCCGGTTCCACCATGACAGACTGACCATCAACAAATACTTCAATCAAGTT
GCTTGCTTGTGTGNGCANTTGTTCGAACACATCCTTANGAACTTAGAAAGACCTACTNAGGCCT
TCTTACAGGTATCCTNAACATATTTGCTTNTCCCCGGACCANGNANGCTGTTNTGCTAAAACTGTT
GNACANNAANACCCCTTAGAAGGCCGG

SEQ ID NO: 2248 ACTTGATGATAACGGTTTTTAAATCCTTCACTCGTTCCTTCTCAAATCTTCCCA
CTTCTTTTTCGAATCGTTTATAGATATCTGTTCAAAATCTCTTCCCCTTGTGCACTTTGCGCTCCCAG
TCTCTTATTTTCAATTTTATAGCTTGCTGTATTTTATCTGGTTTGTAGCAACCATCATTTTGTCTCAGC
TTCACGTTTTTTGAGCAAAGTAATTTGAGCATCTTCCCATTTCTGCCAGCACTTCATTGATGGTCA
AACACACCTTTCAGTGCAGCAATAAGACGAATGTAGTCACTAAGTAGTTCTGAAAACATATAAAA
GTCAGCAAAAGCTTGTCTTGATGTAAGTGGTCTATCTTCTCCTCAACCTCTGCAAGCTGAGACAA
AGCTCTAGATAAAGCAGTATGATCCTCAGAATTACCTAACATGGCAGCACTTTAGCAAAGGCAG
CTGTGTTGGCTGAAAGTTCTTTCTATGACAGACCAAGGCTTCAACACTGACATGAAGTTTCTTAA
GTTGCTGATCCAGATTTTCAAATTGCTGCTGCTTTTCTTCAAACCATGCATCCGATTTCATTCATCTT
GGATTGCCATTTTGTGACAGCGTNNGGCAGCCTTGTTCACCATCCTCAATATTTCTGCTCCAC

SEQ ID NO: 2249 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANANACACTTCTTTTATTTAGGAAG
GAGTCTTTCCTACTGGCNCCTGGCTCCTGCCAAAGGTCGGGGTGACAGCAGGATCAAAANCACTG
CTCTCACACACAGTGGGAGTGGAGGATGGCTTCCCGCANCTNTTTAAAAAGCCAGNAGTTCTN
TTTATTTCAAAAAAGGGCATTCTATACAAAACATCATTCATTACAGTCGTCACTTCCAACCTACA
GGCTCAGGGANACGACTCTTGATATTCATGGGTATATATTTACTTTAATCATATTTTAAAAATCAN
CTCTTCCACACTAANATTTACAATAAAAAATAAAATAATTTGTTCTGTAAACTATAGTAAAAAGTTT
CAAAATGTCTTAAAAACTATCTTCCATACAATGGAAAAAGGCTTTTGTGTTCTTTTGGGCAANAAA
ACCCAAATCNCCTGANANAAAAACCCGTGGCCGTGTTGCTGGAATGATGCTGGAANCACTTNTTTG
CTACANACGGTTGCTAAAAAAACAAATCACTTTCTCCCCCTTACCCTGNAAGTCCACTNTTTTTTG
CTTAAAAATCTACCTNNGGATCTTCCAANAAGCTNAAGGNTGCTCTTNTGTTGCTGCGCCTGGCA
NCA

SEQ ID NO: 2250 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNACANAAGGGAGGGANATTTAATGTT
GTCCATANAAAGACATTAAATGTCACTGACAATTTANTTATGGTTACAAACCGGAAAACCATG
CCATTTGGAGTAATGGAATTTGAAGTTACTANAAAACGACAACAGATTTTGATACANAATGACA

AGGCTTATCTATAACACGTCACGTTTTTCNACNACTNTGAAATTTATAAATAGCTGGGGAGTTCAC
CGTTTTNTTTNTTTCACCTTCACCTTCTGAGTTTTATCCATAAAATCTTTCGCTGTTTGAATTTTCTGAG
CAATAACAAACAATTTCTTCTCTCGTTCAATCCGNTGTGTGAGGCANTTATACTGCTTTTGCCTTTC
TTAACTATTTCGCTTAAGTCCAGTCTGATTGGTAACCTCTTTCACCTTTTCTTNTTGAAGGTCTCT
ATCCTGGGCCTATNAAANACTTTNNCAACTATCTCCGNGCTGTTCAGGTGAATTGCNACATCAA
AACTGTTNAACTTNTTTTTTGGGNGTAAAAAANACATTGCTTGTNTGNTNNTTNCNGNA
ANTCCACCANAAGGNCTTNGATTTANCTT

SEQ ID NO: 2251 ACAAGATGTGTTACTATCGCTTTGGACAGGTTTACACAGAAGCCAAGCGTCC
TCCAGGCTTTGACCGTGTCCGAAATGCTGAGATTGGGAATAAAGACTTTGAGCTTGATGTCCTGGA
GGAAGCATATAACCACATAACATTGGCTGGTCAGGATATACAAGGTAAAGGACCTGGATAATCGAG
GCTTGTCAAGGACATAAATGTCACGTCCAGCTCTGATATGCTTCGCACTGAGCACATCACATTTAG
GACGTTGAAGATTTTTTTTTTTTTTTTTTAAATATGCAGTTTGTAAANAACAAACTGGATGGCAT
CAAAATTGTCTGGAAGTTTGTCTTGGGCAGTNTGGGCTGGGCCAAATGAAATGATTTTATAATT
CTAAACAGGTTCCAAATGAAATGTATGACTTTACTTTGGTCAATTAAAGGGGGGAATTTTTTCTA
AAAAAAAAAAAAAAAAAAAAAAAAA

SEQ ID NO: 2252 ACGCGGGTGTGGATCTAAGGGGAATGCTTTATTATGGCTGCTGTTGTCCAACA
GAACGACCTAGTATTTGAATTTGCTAGTAACGTCATGGAGGATGAACGACAGCTTGGTGATCCAG
CTATTTTTCTGCCGTAATTGTGGAACATGTTCTTGGTGCTGATATCTCAATAGTTATGCCGGTCT
AGCCTGTGTGGAAGAGCCCAAGTACATGATTACTGAGAGTTCACTGGATGTTGCTGAAGAAGAAA
TCATAGACGATGATGATGATGACATCACCTTACAGTTGAAGCTTCTTGTATGACGGGGATGAAA
CAATTGAACTATTGAGGCTGCTGAGGCACTCCTCAATATGGATTCCCTGATGCTGATGATGA
AAAACGAATAAATAATATATTTAAGTTACCTGAAGATGACATGGTTGTTGCCCCANTCACCC
ATGTGTCGTCACATTAGATGGGATTCCTGAAGTATGGAACACANCANGTGAAGAAAAATTT
TGCANACTCACNGGAGCCTCATCACAGAACACCTAGAGGGAAAANGGNANAAAACTNAACC
ACCACGACAGATCCCCTTCACTACGCCAAATNTTCTGTGAAGAAGAAAAACAAANACGGAAANG
GGAAACAAA

SEQ ID NO: 2253 ACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATGGGACGTCATC
GTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCACACAATCGCAGTTTGGAG
AGATGGGAGGCAAGTTTATGAAAAGCCAGATTAGCCTGAGGCTGCTCAGTCGTTCTTAATGAAT
AAAAATCAAGTGCACAAAGCTTCAGCCCCAGATAACTATGATTCCTCCTAGTGCACAACCACACN
CACTCAAAACACCACCTCTGGGACAGACACCTCAGCTTGGTCTCAAACTAATCCACCACTTATCCA
GGAAAAGCCTGCCAAGACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTTAACTAACT
GAACTGTTGTGACTGAATATCTAAATAGTGGAAAATGCATAATGAGGCTGTCNATGGTGTANGA
NAAATNANGGCTCCTAAACACTTTCTTCTGAGATGTTAAAGCAAAANTNATCTTCTGTCAGTAG
ATTGAANCCGATGAAAAATAAGAAAAAANCATGTTCTTTGATCA

SEQ ID NO: 2254 ACGCGGGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGAT
CGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATG
GGCGCTTACACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTG
ATGTCAGGGCCTGCGTGGCAACTCATGCAGCAATTCCAGAACCCCGACTTCCACCCGAAGTAGA
GGAACAGGATGCCAGCACCTGCTGTGCTTGTGCTGGGAGAGTGGGATGAAACGCCACAGAG
CAGCCTGTGCTTCGGCTAGTATTAATGTGTAAATAGCACTCTGGTAGCTGTTAACTGCAAGTTTAG
CTTGAATTAAGGGATTTGGGGGGACCATGTAACCTAATTACTGCTAGTTTTGAAATGCTTTGTAA
GAGTAGGGTCCCATGATGCANCCATATGGAAGACTAGGATATGGGTACACTTATCTGTGTTCTTA
TGGAAACTATTNGAATATTTGTTTTATATGGATTTTTTATTCACTCTTCAAGAACGCTCTTANANAG
TGCCCTTAACTGNTNAACAAGCATTGTANCTTTGT

SEQ ID NO: 2255 ACGCGGGGCTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGT
GGTGGGTCCTCTGGTGCGAAATCCGGATTTCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGT
GCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCGTGAAGGGGATCAAGGGACGGCTGAA
CAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGAAAGGCCAACCCAGAGC
TCAGAAAAAAGGT

SEQ ID NO: 2256 ACCAAGAGGCCAGTGTGCTCTGTGGACCTCAAAGTTCACCTGACTTGCTTCAG
AAAGTTTATTTCAAAACCTCCAGATATTTTGACAAATTTCTTAAGATAGCCCTGCCAGGGTGAG
TATGAGTGTGTGATCAGATGGGTAATACTTGCTGGCCTGGGGCCCTTTTCTAACTGGTCAATGTT
GTTTANTGTGTGTCATGNATNTGTGATTATGTANATNAANAANTCNACNCTNTNTNCTTANN
TANGAANTANCTTANTANTNNATANNNTGNTT

SEQ ID NO: 2257 ACGCGGGGACCTAGTGTCTGAGCGGCACAGACGAGATCTCGATCGAAGGCG
AGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTCGCCATGGATGAGGATGGG
GACGAGAGCATTCAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGGCTTTGGCTCCG
AAGAGGGGTCCCGAGCGCGGATGCNTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACC
CGGACCACAACGCTCTGTTGAAGGCTGGATTCTCTTTGTAACCTGGAGTCCATGAGGAANCCACCG
AANANNACATACACGACAAATTCGCANAATATGGGGAAATTAAAAACATTCATCTNAACCTTCGA
CANGCGAACAGGATATCTGAAGGGGTNTACTCTAGTTNAATNTGAAACATACATTGAACCCANG
CTGCTATGGAGGGACTCNATNGGCCNTGNATTTANTGGGNCACCCCATNANCNTTGACTTGGTGT
TTTTNNGGGTNCAC

SEQ ID NO: 2258 ACATGTTGAAAGCTTTAAATAAGGATCCTTGGATACAAAATATGGTCCACAT
GGCTGAAAATTAATTCTATGACACAATATTATTCTAAAGTCATCCTTATTTTGAAAGCCTAAAGAT
TTTCTTTTATGGCTATAAAAATACCACCAAGCTAGACATTTTAATTCTGTTGAGATATACAAATAG
AATTACCACAGCAGCCTACACCTTCTATGATTTCTAAACACTTAAACATNAATGGTTTTGGGAAGA
TGCTGTTGTCTTCAAAGTTCATTAAGATTCANATGCCTTTTGTNGAAANCCNAANTTTTCTTNTC
CCTGCTAAATTGGCTTNTAAAAAGTCA

SEQ ID NO: 2259 ACGCGGGCTGAACGTGAGAAATTGACCCAGCAGATGATCAAGTATCAGAAA
GAACTGAATGAAATGCAGGCACAAATAGCTGAAGAGAGCCAGATTCGAATTGAACTGCAGATGA
CATTGGACAGTAAAGACAGTGACATTGANCAGCTGCGGTCACAACCTCCAAGCCTTGCATATTGGT
CTGGATAGTTCCAGTATAGGCAGTGGACCAGGGGATGCTGAGGCANATGATGGGTTTCCANAATC
AANATTAGAAGGATGGCTTTCATTCCTGTACCATTTGAATTCACAGGCNTCTTTCACCTTAGAA
ATAGATTANCCACATAATANCAACTGTAGTGTAGAGTATTAACCTTAACAAAAGAGGATTGAG
GGTGGAAGTTTAACTGTTATTTCAATGTCCATTGNAATTGAGGATAATGGTTATTTGAAATTTAAC
AGAATTTAATAAGAAAAAGATTTCTTTACTCATGTGTATCACTAGCATAACTATGTAGGTGGGCAT
AATTTTATGTGGTNGGGATATTCAAAAAATGTTCCGTNTATAGAATTTTAAAAAAATTTAATAC
GGNTTGGCGTGGTGGCTCATGCCTGTANTCCCANCACTTTGGGAGGCCGATCACNATCCGGGGGT
GGATCCANGGTC

SEQ ID NO: 2260 ACTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTAAAAATTTATCGGTTCCGACTTAAA
ACCATCAAGTCTGGTCANAATCAACTCAGTCTAGCTGATGCAAAATCATATGCATTCAAAAAGCA
GTCTTTACCGANATGCCTTTACAAACCTTGGAATCCAGCACCTTNTTAAGGCCAAAGTTTCATGGCA
GCAGGGAAGTGAACATAAATTTTCATTTACCACATCTTGGTGTCTTTGAAAAAATACCTTATGGC
ACAAACCTGTTTTGTCTCTCCTTATGCTCCACTTCTTCAAGTAGACTANAATGCTNCAGGCAATT
TCTCATTTATGCCACCATGCAGTCTCAATCCATTTTAACTTGNTCTANATACCTAAAATTTTCCACT
ACTACACANACCTCANACANANTGNAATCTTCNNANCATGTGTNNTCNANAGCTTNTGTGCTCCA
CNACTTCCACCTGGNCCTGGGT

SEQ ID NO: 2261 ACAGAAATTAATAAATCAGGAAAAAATAAGAAAAAAGCATTACAGTAAGAT
ATTTTGAATTAAGAAACAAGGTGTAACTGTAGGAAAAATATACAAATAAACACAACCTGAAATAAA
CATGGTATAAAGAGAAACTTTCCATTAAAAAGCACATCTCTATCTGGAAATACAAAGTCTTAGAC
AGAATGTTAATAAAAAATCTAAAAAATAAAAAGAGAGAAAGGGTAAACAGATGTATACACCGTAT
CTATAATTAATAATTCAGCAACATGCTTTAGAGTATGCAATATATAAAAATGGTCAGGTGTGGTGGC
TCATGCCTGTAATCCCAGCACTATGGGAGGCCAAGGTGGGTGGATGACCTGAGGTCAGGAGTTNG
ANACCANCCTGATCAAAATGGTGANACTCCGTCTCTCTA

SEQ ID NO: 2262 ACGCGGGGGGTGTGTTACCTGCCCACAGCATAATGCGAGGCAATGTCCAGCC
GTTCCACCCGGCATACAAGCTTATGGAGCAGCCCCCTTTGAAGATCTCCAGGTGGACTTCACAGA
GATGTCAAAGTGTAGAGGTGATCGAGTGTGGATCAAGAACTGGAACGTAGCCTCTTTGTGTCCAC
TGTGGAAAGGACCCAGACTGTCGTTCTGAGCCCTCCACCGCTGTGAAGGTAGAAGGAATCCCA
GCCTGGATCCACCACAGCCATGTAAACCTGCAGCGCGTGAACCTGGGAGGCAAGACCAAGCCC
AGACAACCCCTTTCAGAGTGACCCTGAAGAAGACGACAAGCCCTGCTCCAGTCAACCCCGGAAGCT
GACTGGTCCACGCACGGCCGAAGCCTGAGGAAGCTCATCGTGAGATTCAATTTTTCTTAAATTTTG
GACTTATACAAGTAAAGGGCTTCAACTGATCTTACTCAAACCTGGGGGACTGTTCCAGTNTATTCA
TCANGTCACCGAAGTANGACAGCAAAATTAACAATCTTTCTGNTCTATAGTTATTATGAATGNG
GTGGAACAATAAAAGAACTTGTNTGTTNTGGANANANAANTANNTNNTNNTNNTNNTNNTNNTNNT
ATATNTNT

SEQ ID NO: 2263 ACATCCTCCCAAGTCTGGAATACAGAATTGATGGAGGACACTTAACTTGCTT
AAAATGTATTTGATTATTCTGCATTTATGATAAAAAATATCATCCAGGGATTATATCAAGAGGGT
AAATTTAGGATTACATGTTTCTAGAACATATAATATGTAACCCATCCAAAAACAACAACAT
ANAGCACTGGAACCAAGAACCCTTAAATTTAGAATAAATTAGGAAATTTCAATCTATAAGTG

TCAAACAACAAATGAGTTATAATATTTTTCTAATAAGAAAAATATCACCTGNGAACTATGAGATA
CTACATCCTTGATCTGGCTGGCCACCATTTTGAAGACCACCACANATCTCAAGGCATGATACTACT
CACCAACAAATCTATCCCTGCTATTGCACCTANTGTNATCTCAATNTGTGGCTGACACCAAATGT
CTNACTTANTCTGATAGATGCTCTTATTGCATTTAANNNGGGCTAGNTNTGTTCCCTATTANCTTGT
AGC

SEQ ID NO: 2264 ACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGG
TTTTCCAGTTTCTTAATGCGAAATGCGAGTCGGCTTTTCCTTTCCAAGAGGAATCCTCGGCAGATAA
ACTGGACTGTCCTCTACAGAAGGAAGCACAAAAAGGGACAGTCGGAAGAAATTCAAAAGAAAAG
AACCCGCCGAGCAGTCAAATTCAGAGGGGCCATTACTGGTGCATCTCTTGCTGATATAATGGCCAA
GAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAAGCTATCAGGGCTGCTAAGGAA
GCAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGG
CAGCACCTAAGCAAAAGATTGTGAAGCCTGTGAAAAGTTTCAGCTCCCCGAGTTGGTGGAAAACGC
TAAACTGGCAGATTANATTTTAAATAAAGATTGGATTATACTCTAAAAAANAATA

SEQ ID NO: 2265 ACTTGGCTTGGAGACTGGCGCGCGTTCGTGTCCGAGGTCACTANTTTCCCGG
TAGTTCAGCTGCACATGAATAGAACAGCAATGAGAGCCANTCANAAGGACTTTGAAAATTCATG
AATCAAGTGAAACTCTTGAAAAAGGATCCAGGAAACNAAGTGAAGCTAAACTCTACGCGCTATA
TAANCAGGCCACTGAATGACCTTGTAACATGCCAAACAGNTGTATTTNACTTGATCAACAAGG
CAAAATGGGACGCATGGAATGCCCTTGCCANNCTGCCAAAGGAAGNTACCAGGCCAAACTTTGTGN
ATTTTTNNTACATATNGAGTCTTATNTTNAATCNTATAATANTGACNCTANCNNTGATATCANATA
TTAAATGTATTNGGTNANCTAAATNTTTNANANATATTCTAATTTTTATTAATATCATNNTATTTAT
A

SEQ ID NO: 2266 CGCNGGGGANACATCACCGNCAACCTGGGCATNGGGGANATGGCCGANACT
GACCCCAAGACCGTGCAGGACCTCACCTGGGTGGTGCANACACTCCTGCNNCANATGCANTATAA
ATTTACACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTATGTCNCATTGATGATC
TGGAAAAGAATATCCNCGGACCTCATGACACAGGCTGGGGTGGAAAGAACTGNAAGTGAAACA
AGTACCTGCCACGCAAAANAGTTGAAGGTTTGCTAATAATTTATACTGNAATCTGGCATTTTTCC
AAGCCATAANATATCNAATGGCTTTTTTGCAGCTAACTACTATTGTGTAAACAGGTTTTATATTAT
AAAAGTTGTGCANTCTTATCACCTANTATATAGTTGGGTTTNGANANNGATNTNCCCCAGTTTCT
TTGAACATGGTNTNTTACATNTTGGACCTTGGTATNTGNNCTTNTGCATTATTAATACTAAAA
CTTTGGNNGTTCTTGCCATAACATNNGNCAATTTTTTANNGNATTTNNGGGGAAGCATTTTTTTTCNT
G

SEQ ID NO: 2267 ACTAAATATTGCTGAGAGCATCCACCCAGGAAGGACTTTACCTTCCAGGAG
CTCCAAACTGGCACCACCCCGAGTGCTACATGGCTGACTTTATCCTCCGTGTTCCATTTGGCACA
GCAAGTGGCAGTGTCTCCACCACCTATGATGGTGTGACAGCCCTAGAAGTGGCTTTACCCACCTC
ATCCATGAGAGCTTTGGTTCCCCGGGCAAAAGCTTCCATTCAAATACCCCCACAGGACCATTTCCA
CACAATCTGCTTAGCCCGAGTGACAGCCTCAGCATACTTCTTGCTGCTTTCAGGACCACAGTCCAA
GCCCATCCAGCCAGCAGGTATGCCAGAAGCCACAGTGGCTTGGCCAGTCTTGGCATTCTCATCAA
ACTTGTCAGCAGTGACAAAGTCAACAGGCAAGGTAATCTTCACACCATTCTTCTCAGCTTTGGACA
TTAGGTCTTTGACAATCTTGGCTCCCTCTTCATCAACAGAGAAGTGCCAATCTCCATCTTTGTTGA
GCACCTTAAGGGAAGGTAAAAAGCCATTCCACCCACCAATAATCATCTTATTGACTTTGTCCAGCA
TATTATTGATGAGCTGGATCTGTCTTGCAACTTTAGCTTCCGCACAGGATGGCCAGGAAGGGTCN
CTCTGGG

SEQ ID NO: 2268 ACATATTACATACTCACAAACGTTCTTTGAAATGTCAGACTCCTAACCGTATC
CCACAAAGCCCCTGCTCAATAGGGCCCAGCCTGTCTCTTCAACCTCCTCAGATGCCTTTCCCTTGTC
ACCACGGACCAGCCACACTTCTCAAATGTGCCACGCTCATTCCACCTCAGGGCCCTTTGCCTATG
CTCTCTCCCCTTGGAGCATTCTTCCCCAGTTCTCTGAATTTGGAGGCAGCTTCTTAGCTGTTGGGTG
TCAGCTCAAACGCCAACCCCTCCATGTGGAATAACCTGTATCTTGAGCTGAGTGCTGGCTACATG
GCATATGCCAANTGGCTTTCAACAGTGGCGATTTTCGCCTCCAGAAAGATATATGGCAATGTCTGGG
GACATTTTTGATGGTCACACTGTGTGGGGAGGAATGTTACTGACATTTTNGTGGGTAGAGACCAN
TNTTGCTGCTTAACATCCTATAATACACAAGACNNGGGCCGAGCGCGATNNGGCTCACGCCITNGAAN
TCCCAACACTTTTGGGGANGCTGAGGCGGGCAAATTACAAGGTNATGGAATTCTANACCNCCTG
CCCTANATNGTTGATACCNTGTNTTCTAATAANAAATACANAAATTTTGCCATGGCTTGGTTGGA
NNCACNTNAT

SEQ ID NO: 2269 ACATGAATTAGAAGCGTGCATCTAGGATTATGGCCAAACTGTTTTAAAAATG
CAGAAATGTAAAAATTACATCTTGAAAATATGAAGAGATGGTCTACACACTTCAAAAATCAAATGT
TGCTTATACCAGAGATGTATGACAATCACGGGATTCAAGTGACAAGCAGTAAGATCTCAAAAATT

AATACTGGTCAAAGATAATGGGAATATTTTTTGCATTTCACTGAAAATACATTGACTACTAGAATA
CGAAATCTAGCAGGAACTCAGGGAAAAAATTCAAATCTAAAGCCAATTACTTAATATTTCTTA
TTACCTAAACAACAGCATGACATTAACAGAAAACCTGCACCTGCATTTCAATTGCCAATCTCACGTT
AATNAAGTTCTCCAAAAATGAAATGCAACCAAAACGGGTTCAAACTCCAAATGAAAGTCTGCAAG
GCTCANATTAAAAACATGGAATGTTTCAGATGAAAGTAATAAAAAACACTATTGGTTTTGTCTTTAT
TGGATGGAATAAAATGTTGACATTTCTTTGAAACTTGGGAACCTACTAAATTTNATTTTTTCCAA
ATGGGGTCTCATTTTTTTCTTAAGNGGGGCAAGTTGNCTTAAGTAGCCTTAGGAAGTCAATTCTCT
NCAAANTNCCTGC

SEQ ID NO: 2270 ACTTAAAGTTAAAAAAGCTGA
ATTTATTTAACTTATTGGATATGTTTATGTATACTAGGNAGNGACTTAAATTTCTTTTATTACTTG
NGCTTCTGTTTNGGGGNCNCTTTGATTGAANAAAAATTCAAATTCACAGGATTACATNTTGCTAAAGC
ATTCCTTANCAATTGGNCCAAACTTGAATTCCTTTTGCACATACTGATCTGCATNACTGCATANCT
TATGAGGGCCTCCTTTAAGTCTNGGTTCTTTGTTCTTTGAANC GTTCAATATCANCCCATGCNNTT
TTNANAAATTCNTGCTTCCAAATTTTTAACTTTAGCNGGNGTTTNCCTTCATTTATTIGTTCTT
CTAGCACCTTTATTCTGGCTTCTNTCTGCTNTGGAGTTTCTTGACCAAAAANCTTTGGTNGTCNTTC
CCTNNAAAANAGAATGTNTCACAGTCCCAGTTACCAGTTCTNACACTGCTGCTTCTTGGATGCTA
ANNCTGACAGCCATCTCCAAGTTATACTGCATAAGTTNATGTTTCTGTCACACACCCCNATGCT
TCTGCGNAAAAAAGATACNCTTTAACNGNACCTGCATAAAGTTCTTCATCTTCCAAAATTTCTC

SEQ ID NO: 2271 ACTGTTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTTTC
TACCAACCATCTTTCTGACTAAACCAAGGTCATGTCACGGAGGTGCCAGAAATCTGCTGCATCAT
GAAGGGGGTCTATGGCATTGAGATAGAGATGAGATTTTGGCAAATTGTAGTGGAAGAAAGAAA
CAAAATTGCAAATATATGGAGCCAGGAGTTTGTCTATAGAGAATTCTACCGAATCTTACAGCTTGT
ATAGAAAGGATAGAGGTTTCCATAAATTTGGCAAGAGATTAAATGTTTACATGAAATTACCAGT
AATAGGTTGTGAAACTGAAAGGAACATTTCTAATCCATAAACAATACAAGACAAATTTTGACCAA
CCATACTAAAGGAAAGGCCAATTTTTTTTCTCTTTGTAGACAAAGTTATGAAATTATTGTCAAGT
GAAGAAGCAATCAAGAGTGTGCANCCAAAACATACAGGCAGACAGGGCCCCATGGCTCACAGCT
GTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTCAGGAGTTTGAGACCACC
NTGGCCAACATGACAAAACCCNTGTTTCTACTAAAAATACCAAAAATTTNGCCCGAGTGTGTTGGT
GGGCATCTTGAAATC

SEQ ID NO: 2272 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTGTCCTAAATTGTTTATTAAGTATGA
ATTTTACAAACTTTACTTATATTANCGGTAACGGTGGAGCTGGANAGTATTGCNCCTTCTCCAAGC
TGCCCGGCGAGAGCCACCAATAGTGTGGTGGAACCTTGTGGCCCTTTCCAAGGCCACGGNTNTTTCG
GCCTGCANATGTCAGCCACNCATCTCCCTGTGCTTGTGGACTGGTTTGGTGATCCACTGGGTGTC
AGGATTTCTTCTGATAGCTTTATGGAATGGATCAATGAGGATAACCTCAAAAAATTTGNTGTGGA
ATCTTCACCAACCCANTAANAATTCAGGACTCTCAAAGCCCCACAGTGCGCTCCAGCTCGCTCCTC
TGCAACGGGACTGAAGGCTTCGAGCAAACCTTAGCTGGTTAACACCATGATGGACAGGCTTGCCNT
AAGTTGCACCCTTAGGAACTGGGCGTTTTTCGGCCCCACGGCGAANNNAATCTATATATAACGT
AACCTTGCTTGGCCTTGTACCCATTCGGCNCNCTTTATAGGCCGGGTGGGGCGGGNAACCCNTTGG
AAACAAAAAATTTGGCGGGACTTT

SEQ ID NO: 2273 ACCTTGATACACATAATCAGCCTTTTCAAAAATGCCTGACAAGAATTAGTCTT
TCCTTTGTGCTGAAGTCTTCCACCCATGGATGGAAGCAGGCTGACTCCCTGAGGGTCAGACAAGG
GGTGGGAAAGGGAACACATTACTTTTGTGAAGGCAAAGCAGAAAGGTGTGTTTGCCAGACCAGCA
TGGGCAGCTCAGAGGGAGCAAAGCATCCACAGAAGAGGCTCTCCATTTTCTTTGTAGGGCCTGA
CAGTTGAGATTTGAGGCTTAGTTAAACAATGGGACCACTGAACCTCTTTCCAATGGAAAACCTACGG
CCCAGTCCCACAGGAACCTGTGCGCATACCAAAACAACATGAGGAAGGAAGGGCCGGTGGCTCT
ACCAAAACAGTTCAGGTCCACTGGGTGAATGAAGCCTGGTGGGAAAGCGGACTCCTGAAGTTGGCG
CCCTCTGCTGGTCCCCTTCTCATCGTGGCGGGTCNCTGCCTGAGTAGAGGAAGAGCTACAGATGG
GGTTGACAAAAAAGGAGTGAGGGGAACCCAGGAAGATGAACCNAACTCCAAAACNTTTTCT
GNTAATCATTTTTTGTATCAAAAATTCAAAATNAAGGAACCCCAAANTTCCTTGCCCGGGCGG

SEQ ID NO: 2274 ACACAGCAGCCAGTTTTTCATCGGTGATCATGCACAGCAATGCCATTGCTGCC
ATGACCAGCAGCAACCACAGAGCCTTTTCAGACCCAGCTGTCAAGTCAAGTCCCTGAAAGATGACAG
TAAGCCCGAGCCAGATAAAGTGGGTAGGTTTGAAGCAGACCCAAAAGCATTAAAGGAGAAAAAG
AAAACATACATCACATACCAGGGGAGAAATACCGGAGGAGTCAAACCTATGTTGCTGATCCTGGAGG
ATCACTGAGCAAAACCACAAATATTGCTGAAGAAACCAGCAAAATTGAAACCTACATTGCAAAAC
CTGCTCTGCCGGGAACCTCCACAAATAGTAATGTTGCACCCCTTTGCCAAATAACAGTGAAAATTG
GAAACGAAGCCATTGTGAAAAGGCACATTTAGGATCTAAATGTTTATAAAAGAGGGAGAAGA
CCCAAGTATCAGATGCAGGAGGAGCCTTTGCCACAGGGGAATGACCCAGAACCCAGTGGAGACA

GCCCACTCGGGCTTTGCCAATCCGAGTGCATGGAGATGAGTGAAGTGTTTCGATGACGCAAGTGAC
CAGGATTCCCTGACAAACCGTGGCGCCCTTACTACAACCTACAACCCC

SEQ ID NO: 2275 ACTTTTTTTTTTTTTTTTTTTTTTTGGGATTTTTAGTAAANACATGGTTTCGCCAT
GTTGGCTGGGCTGGTCTCGAACTCCTGACCTCAAGTGATCTGTCCTGGCCTCCCAAAGTGTTGGGA
TTACAGGCGAAAGCCAACGCTCCCGGCCAGGGAACAACCTTTAGAATGAAGGAAATATGCAAAAG
AACATCACATCAAGGATCAATTAATTACCATCTATTAATTACTATATGTGGGTAATTATGACTATT
TCCCAAGCATTCTACGTTGACTGCTTGANAAGATGTTTGTCTGCATGGTGGAGAGTGGANAAGG
GCCAGGATTCTTAGGTTGATCTATCTGTGGGTATGACTTCCACAATAGCCACCCCCGCCCCCAC
CAGTCCTTTTATTGGCTCTGGATGGAATAATCCCTACCCATGTGATGGCCCTGGTCTCTCTATAGTT
TGACCAACAGTTGACCCAAAAGGTTATGGTCTTCAGCGTTTTAATTATATCCACNCTAGATACTGG
GGTCTGTNTCTTCAAAGTGTTGGGGCTGCCTATTCTTCCANGAACCAAAATGGCCCCCGTCTTAAN
AAAAGTNTGCTTACTANGAAATACCCTGCCTNCCTTANGAAATAAATGCTACTTAAGGAAAAAAT
TANAAACCTN

SEQ ID NO: 2276 ACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGG
TTTTCCAGTTTCTTAATGCGAAATGCGAGTCGGCTTTCTTTCCAAGAGGAATCCTCGGCAGATAA
ACTGGACTGTCCTCTACAGAAGGAAGCAGCAAAAAGGGACAGTCGGAAGAAATTCAAAAGAAAAG
AACCCGCCGAGCAGTCAAATTCAGAGGGCCATTACTGGTGCATCTCTTGCTGATATAATGGCCAA
GAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCTAAGGAA
GCAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGG
CAGCACCTAAGCAAAAGATTGTGAAGCCTGTGAAAGTTTCAGCTCCCCGAGTTGGTGGAAAACGC
TAAACTGGCAGATTAGATTTTTAAATAAAGATTGGATTGTNNNAANAAAAAN

SEQ ID NO: 2277 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGCTTNGAAATTACTTTAATTTANAAA
TAGAAAACATCTTGAAAGGAAAAAANCCACAAAACNTACAGGCAAATTTGTNTTCTGTG
AGTTTCTCACACCCTNACACTTGTTACCAATCTNTAAAAATNAAAACTNTNTTCCAAAATGTNTT
CAGCCACCAACAATGATGTTATTAATAGGAATNTGGATCAATTCACAAANAANCCAATGAATCC
CATTATAGCAAAATCCTATTGCTGTTGCCATGGCAATCTTNTGGAATTCCTTTNTATCAGGTTTAGN
CATNTTTAACCAGCCGAATGGAGTCCTTTACAACTGCCGACTTGGCTCAACAACTGCATTACC
TGATCCATGACTGCCTACCCAACCGACACCTAAAAATGCCAGGACACGTANCACTGGAGCTTGTT
GATGGAGGCCACCGNACCCCTGT

SEQ ID NO: 2278 ACGCGGGGGCCTCGGCGATGTCGTGGGTTCAGCAGCCTCCTTGATCCAGGG
CCCTGGAGACAAAGGGGACGTGTTTGACGAAGAAGCAGACGAGTCGCTCCTGGCGCAGCGGAA
TGGCAGAGTAACATGCAAAGACGAGTCAAAGAAGGTTATAGAGATGGAATAGATGCTGGCAAAG
CAGTTACTCTTCAACAGGGCTTCAATCAAGGTTATAAGAAAGGTGCAGAAGTCATTTAAACTATG
GACGACTCCGAGGAACATTGAGTGCTTGTCTCCTGGTGTACCTTCATAATAATAATTCAACTT
TGATCAATAAAATAAACAATCTTCTGGATGCAGTTGGCCAGTGTGAAGAGTATGTGCTCAACAT
CTGAAATCAATCACTCCACCGCCCATGTTGTAGATTTATTTGGACTCCATTGAGGATATGGACCTTT
GTCATGTAGTTCCAGCTTGAGAAAAAGATTGATGAAGCTAAAGATGAAAGACTCTGTGAAAATAA
TGCTGAGTTTAACAAAACTGTAGCAAGAGCCATAGTGGGATANATTGTNATATGTAGAATGTTT
GTAAACCAGGACCNTGCACATTCAAAAAACCCCATCCCCANATTGATTTTGAACCAGACANCCA
NTTTATTNTAACANGCTG

SEQ ID NO: 2279 ACCAGCTGGCACAGGAGCAGGGGGCATGGCACCTCTGTTGTTTATGCCCAT
GCACCTCCCATAGCCATCTGACCCATCCGAATCTCCTGCTCTCGCATCAGGGAAGGTTCCCTTG
AATCCTTCTGCTGTGCGCCGATCATTCTTCTTGTGCGCGCCGATCTCTTCTTACGGCGCCTGC
GCTCTTCTCCTGCTGAGCTCCAGTTGCTTTTCGTTTTTGACCTCTTGGTTGTGAGCTCTTCCATC
CTCCGANGTTCTTTTTNGGCGCCTAATCAAATCCTGTCTCATTAGCATTGACCTGTAGCTCATGGCG
TGCATCTTCATCTTNTCT

SEQ ID NO: 2280 ACTGTTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTT
TACCAACCATCTTTCTGACTAAACCAAGGTCATGTCACGGAGGTGCCAGAAATCCTGCTGCATCAT
GAAGGGGGTCTATGGCATTGGCATTAGAAGTATGAGATTTTTGCAAATGTAGTGGAAGAGAA
CAAAATTGCAAATATATGGAGCCAGGAGTTGTGCTATAGAGAATTCTACCGAATCTTACAGCTTGT
ATAGAAAGGATAGAGGTTTTCCATAAATNGGCAAGAGATTAAATGTTTACATGAAATTACCAGT
AATAGGTTGTGAAACTGAAAGGAACATTCTAATCCATAAACAATACAAGACAAATTTTGACCAA
CCATACTAAAGGAAAGGCCAATTTTTTTTCTCTTTGTAGACAAAGTTATGAAATTATGTCAAGT
GAAGAAGCAATCAAGAGTGTGAGCCAAAACATACAGGCAGACAGGGCCCCATGGCTCACAGNT
TGTAATCCAGCACTTTGGGAGGCCAAGGNGGTGGATCACCTGAGGCNGGAGTTTGANACCAGC
CTGGCNACATGACAAACCTGTTTTACTAAAAATACAAAATTAANCCAAGTGNNTTGNTGGGCAT

CTNAAATCCATTTCCT

SEQ ID NO: 2281 ACTTGTTTTCTGTATGAATTCAGAACTTTTGTAGCAATAAAAAGTGCTCTGCATA
AGTTTATAAAATATGCTTTCTGGATTTAAATTTAACAGAAAAATTTCCAAACAAGTCATAGGTAT
GATTCTAAAATATTATGTACGTGAACCACAAAGTGTATACCAGGCATATGACATGGATCCCCCTGG
GGAACCAGGCTGATCTCTTTCCAGAGGGCACTATCCGACCAGTGCATGATGATATCCTCATCGCTC
AGCTGCGGCCTGGCCAAGAAATTGACCTGCTCATGCACTGTGTCAAGGGCATTGGCAAAGATCAT
GCCAAGTTTTACCAGTGACAACAGCCAGTTACAGGCTCCTGCCAGACATCACCTGTCTGAGCCC
GTGGAAGGGGAGGCAGCTGAGGAGTTGAGCANGTGCTTCTCACCTGGTGTTATTTGAGGTGCAGG
AAGTCCAAGGGAAAAAAGGTGGCCAGAGTTTGCCAACCCTCGGCTGGATACCTTNAGCAGAGAA
NTCTTCCGGAATNGAGAAGCTAAAGAAGGTTGTGAANGCTTG

SEQ ID NO: 2282 ACTGTTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTTTC
TACCAACCATCTTTCTGACTAAACCAAGGTCATGTACGGAGGTGCCAGAAATCCTGCTGCATCAT
GAAGGGGGTCTATGGCATTGAGAGTATGAGATTTTGTCAAATTGTAGTGGAAAAAGAAA
CAAAATTGCAATATATGGAGCCAGGAGTTGTCTATAGAGAATTCTACCGAATCTTACAGCTTGT
ATAGAAAGGATAGAGGTTTCCATAAAATTTGGCAAAGAGATTAAATGTTTACATGAAATTACCAGT
AATAGGTTGTGAAACTGAAAGGAACATTTCTAATCCATAAACATTACANGACAAATTTTGCCAAC
CATACTAAAGGAAAGGCCAATTTTTTTTTCTCTTTGNANACAAANNATGAAATNATTNGNNAAG
TGAAANAAGCAANCAATAGNGTGCTGCCCAAAAANATACNANGCNAGACAGGGCCCCNTGNCTCA
CAGCTGTNATCCCTCTCTTTGGGAGGCCAATGTGGGCGNATCACCTTGNGGTCAGGANNTTNAG
ANCTNCTTGNCNTTTTANAANACCNCNTNTTTTACTAA

SEQ ID NO: 2283 ACGCGGGATACAAAGATATCCTAGAGACCCATCTGAGAGAGAAAAATAACAG
CACAGAGCATTGAGGAGCTTTGTGCCGTCAACTTGATGGCCCTGACGCGCAAGTGACAGGAGC
AGGCTGGCTGCTGTTGTGTCTGCCTGTAAACAGCTTCACAGAGCTGGGCTTCTGCATAATATATTA
CCGTCTCAGTCCACAGATTTGCATCATTCTGTTGGCACAGAACTTCTTTCCCTGGTTTATAAAGGCA
TTGCCCTGGAGATGAGAGACAGTGTCTGCCTTCTCTAGACCTCAGTTGTAAGCAGCTGGCCAGCG
GACTTCTGGAGTTAGCCTTTGCTTTTGGAGGACTGTGTGAGCGCCTTGTTGAGTCTTCTCCTGAACCC
AGCGGTGCTGTCCACNGCGTCCTTGGGCAGCTTCACAGGGNAGCGTCATCCACTTNTCCCATGGG
GAGTATTTTTTAGCTNTGTTCTCAAAAACNATCAACACGGAAATTATTGAAAAATNTGGATCTTG

SEQ ID NO: 2284 ACTGCTAAGAGGTATTATTAGAAACAAGATTTAAAAATATGTAACAAAATCT
TAAGTTCTTAAGTGAAAGCCATTAACTAGTATTTAAAACCTCTGCAATTATTAGTTTATTAGTATC
ATCCAGGACTCAGATGTTTCACTATTTCTCTGAAATTACATAAAACAAATGCAAATGGAAAGAATC
CAAGTCTAAATTATATAACAAAACAGCACTCCATCACAAAAGCGTGTAATAATTACAAGAACGCTA
TTTTAAATACTAGCACTTTAAGAAAACGATAATCTCGAAAACCACAAAATTGCCAAATTGTTCCC
TAAACTCCTAAGCAGATAAACATGACTAATGAATGAGTTTGTGTTTGTAAAGAAAAATCATTCAAAT
AAATTGAATAATTCATACTGAGATGCAAAGTTTGCTTCTTTCTTCTATCTACTTGGATTATATAAG
GGGCAAAACCGTANTATAGGAAAATATACCCTATTTTGAATGTGGCATCTTTGTTTGAAGGCTGGC
CAAATTAATNAATAATNCTTGTAATTGGAAAGGTCTCGTTTCTGAGCANTCCATNTTTAAATNAA
TGGGAAAANGCATNTTTNGCCAGCATCTTCTAANCTTCTGNGACTNTGTCAACAAAA

SEQ ID NO: 2285 ACACCANATCACGAGACATCGTTTCATACTTCCCAAATAGTTTTATATTTAG
CTTTGAAGGTCAGTTACCAGAGCCAACTTGTTCTTAACAAGCAGAAATTTATGTCCATTCAAAGA
GTCTCTTACACCTTTCTGGGCCTATTCACCTTGACAGAGAGGAGTCGAAACTGTAACCAGGCTCTTCA
TATCGNGCATTCATATGTNGATGTCCTGNTTTCATATGCTGCCAATTTCTTTAAGATTAATGGGAGT
GACTCGNCAGGAGGGCCACGNAGATGAGAANGTTCCTATGGANGNGNATAGATGNCTNNCCGA
TTTTNCGNTAAATNCTTCTGGGG

SEQ ID NO: 2286 ACCACACAATACTAACCCTTCCCTCCTCTGATGTCTTACATCACCTCCCAGG
AGATGAAGTGATTTCTTCACTGGTTTGCCAATTGGTCAGGTCCCCAGCGTTGAACGTTTCTTAGAG
GACCTGGTAGCTAANGCAAGTGCCAGAAAAATTACAACCACTGCTGGATAGTCTGGAAGCAGCTT
ATTGTGTCTGGGGCAGACCGACCCTTCTATCTTTAAGTGCAGCTACATCTTTGGGATCAGTNGG
TTINTAGGCTGGGCTGACATGANACNATNAATTTGTCNGACAGCTGGANTTCAGTGAGCCANAC
TNCGTGGNANAGTTTAC

SEQ ID NO: 2287 ACTAAATATTGCTGAGAGCATCCACCCAGGAAGGACTTTACCTTCCAGGAG
CTCCAAACTGGCACCACCCCAAGTGCTCACATGGCTGACTTTATCCTCCGTGTTCCATTTGGCACA
GCAAGTGGCAGTGTCTCCACCACCTATGATGGTGATGCAGCCCCCTAGAAGTGGCTTTCACCACCTC
ATCCATGAGAGCTTTGGTTCCCCGGGCAAAAGCTTTCCATTCAATACCCCAACAGGACCATTTCCA
CACAATCTGCTTANCCCTAGTGACANCTCAGCATACTTCTTGCTGCTTTTAGGACCACAGTCCAA

GCCCATCCAGCCAGCANGTATTGCCAGAAGCCACCAGTGGCTTGGCCAGTCTTGGGCATTCTCATC
AAACTTGTGTCAGCAGTGACAAAGTCAACAGGCAAGGTAATCTTCACAACATTTCTTTTAANCTTTNG
ACATTAGGTCTTGGACAAATCTTGGCTCCCTTTTCATTAAACAANANAAGTTGCCAATCTTCATGT
TTTTGNACACCTTAAGGAATGGTAAAAGCCATTCCCCCACCNATAATCNATCTCATT

SEQ ID NO: 2288 ACNCGGGGGCAGTGAGTTCGACACACCNTGCCGACTGTCANCGTGAAGCGTG
ATCTGCTCTTCCAAGNCNTGGGCCGCACCTACACTGACNAATAATTTGATGAACTATGTINTGANT
NTGGTNTGGANCTTGATGAAATTACNTCTGAGAAGGAAATANTNNGTAAAGAACAGGTANTGTA
AAGGCACTCAGGAGCCTCTGATGTTGNNTNACAAAATTGACNTCCCTGGCCAATAANTATGANC
TCCTGTGNCCTGGAAGGATTGGTTCNAGGACTTCAGGTCTTTAAAAANGGGATAATGGCTCCATTGT
TAAACGGTTATGCCTGATGGAAAANGGNAGNAATTTTTTTAANANANAAAAACAGNTANATNCACC
CTTTTGGGTACANGA

SEQ ID NO: 2289 ACGATGTCTAGTGATGAGTTTGCTAATACAATGCCAGTCAGGCCACCTACGG
TGAAAAGAAAGATGAATCCTAGGGCTCAGAGCACTGCAGCAGATCATTTTCATATTGCTTCCGTGG
AGTGTGGCGAGTCAGCTAAATACTTTGACGCCGGTGGGGATAGCGATGATTATGGTAGCGGAGGT
GAAATATGCTCGTGTGTCTACGTCTATTCTACTGTAAATATGTGGTGTGCTCACACNATAAACCC
TAGGAAGCCAATTTGATNTCATANCTCAAACCATACTATGTATCCAAATGGTTNTTTTTCCGG
AGTTANTAANTTCAATNATGGGAAAATNATCCCGAAANCTGGNNGATAAAAAATATTAAACTTT
ATGGGTGANC

SEQ ID NO: 2290 ACTTTTTTTTTTTTTTAAANAGNGGCCACCACATCTTTATTGCATACTCAGGTGA
ATACTTATTATACAATGAACACTCCTCCATTAGGANACCATGCCCACTTACANAATGCAGCCGTA
AATGCGGTAAATCTATTTACAGAGGTGGGGTGCAANATGAGAAAAGTATCANCCCCAGGAATTT
GAAAGTGAGAATGATCTACAAATCTCCTGACAAGGAGCAACCGGGCTTGTGCTANTGAGGTCTN
AAAGAATTCCTGGCANGAGCCGTAGGGGGANATTAGATCTCGGAATTGACNGCAAGTTTTGGGG
ACAGTGCAANAAAAGAGGGGTGACCTGTGAATTTGGTGTGCTAGGGGAGCTGCATGAGGCCCAATGT
GANGNACCCCTAGANAGATGANTAAATTTAGGGTGAACTTTACCCTCTCTACCCAATCNAANA
ANGNTANGGGTCCGGGNTATGCCANNAANTTTGNCTTCNANTTNAATTCAGCCAANNGGNTNA
AAAAAGGNTATTTCTATTTT

SEQ ID NO: 2291 ACTGTGTAGAATTAAGCAAACAGNGTGATGTTTCAGAAAGTAACCCATTACTG
CTTAAATAAAGCCTACATCAACACTTAACTCAAACGAGGACAATTGTTATTTAGTTTTATTTCA
TAATCATAACTTAACTCTGCAATCCAGCTAGGCATTGGGAGGGAACAAGGAAAAACATTGGAACC
NAAAGGGAAGTGCANCGAGAGCACAAAGATTNTTAGGATACTGCGAGCAAATGGGGTGGAGGGG
TGCTTCTCCTGAACTNNAGAANGAATGATCTGGGNTTANAATANAANACCANNCAAACCTNATTC
TAGTTNGCTNANAATCAANAANTGGTAATNTTCTGTNTGGTNTTGCNNTTCTTGGG

SEQ ID NO: 2292 ACAAANATGGCTATAAACAAGATGCAGCCCTCGGTTTTCCATGAACAGCACAC
TATTACAGTAAACCAAGTTTATATTCCACCATCAAGTGTGGCTCTCCCATGACTTCGCTTGTGATG
GATCATTAAGAATATCCTCAAATCCAATAGTCTCATCATTACCCCTCAAACATCCAGTGAAAGAT
TTGANCTNGAAAGAAATGGAAGACNCTTGAACCTGCTGCACTGCCTTGAATTTCCATCTGGTAATT
TTAGCGGANCAAAATANACCCCTNGAATGTTTNTTATTNNTGNAAAAATTCNTTTATCTNGNTTGANC
TTAGNAATTTATTTACTGATATTNCCANAAGGGATACCTTGGNNAAAANTNAATTTTTNAACNCGA
AGAAAAACCTTTNANTNATAAA

SEQ ID NO: 2293 ACGCGGGGGATAATCACCCAGAGAAACAGTTCTCTACTGATGTTTTGAAGCA
GGCCATTGAGCTGAGTCCTGATAGCCAATACGTCAAGGTTCTCTTGGGCCTGAAACTGCAGAAAG
ATGAATAAAGAAGCTGAAGGAGAGCAGTTTGTGTAAGAAACCTTGGAAGTCTCCTTGCCAAAC
AAGATGTCCTCCGCAAGTGCAACCAANTTTIACAGAAAAAAGGGTGACCCTAGACAAAGCTNTT
GAACTGGTTTAAACGGGTGTTGGAATTCNNNCAAACATGGCTACCTNTTCACAAGATNGGGTGCT
GCTCCAAGGCAAAAGTAAACAAATGCANATTCAGGGANATTCTGAAGCTNTGGAAATAAAAAAN
TGATTGAAGCACTAAACCAANTTTGCTATGGACTATTCTNAATAAAGCTCTTGANAAGGACTGAATCC
TNTGAATGCATACCTCCNATCTCGCTGATTCCTGGAGACGGGAATGTTTTCAAACCCATTCAATANG
GAAGTCCCTGATGCTGAAAAGCAACATCCATTAGCGCTTCTGNAANCTTTAAAAATTTAATTGGGA
AGNTTTNAAACCTNTTTNGCNANNTTGGTTTAAAGGGTTTTGTCCTTANCNAAAANTNNCTTGGNN
NGGGNAA

SEQ ID NO: 2294 ACGCGGGGAGCGCCGCTCCAGCCACAGCCTCCCGCGCCTCGCTCAGCTCCA
ACATGGCAAAAATCTCCAGCCCTACAGAGACTGAGCGGTGCATCGAGTCCCTGATTGCTGTCTCC
AAAGTATGCTGGAAAGGATGGTTATACTACACTCTCTCAAAGACAGAGTTCCTAAGCTTATGAAT
ACAGAACTAGCTGCCTTCACAAAGAACCAGAAGGACCTGTGTCCTTGACCGATTGATAAAAACT

GGACACCAACAGTGATGGTCAGCTAGATTTCTCAAATTTCTTAATCTGATTGCCATGACTNCTTNN
TTAAGGCTGTCNGCTTCAANAANCNGACCTNANGANCCNTTTGGCNCTTGCCTTCAAACCNACCC
CCCTTTCCTTCCAACCTTTTNTGTAATAATTTTNNAAANN CNATC NNATTNCNTGTNCNAACCTTAC
CNTCNTTATTCCAGGGCCCAACTGNCAATTATTAATNAAGCATTTGTGATTTTTTTANATA

SEQ ID NO: 2295 ACGCGGGGGCTGCCACCACCTCCGCTGCTGAGGTTGCAGATGGCTCTTCCCC
CAGATCTGTTTGCATGCGGGTGGGGGAGAGATAGGAGACAGCACTCGCTCTTTTTTTGTTGTTTTT
ATTNATTTTTATTTTTTTGTAAGTGCTGCGATCCTGGCATACTGTGTAGCTGCAGCCAGGAAGAAA
AGCCAGTGTGGCCCATCAGTTAAAGCCTCCAAGTCAGCTCGAACTGGATTAAATCCATCAAGCTCA
NTGGCTAAAAGCTAGCTGCGTGACCTTGTGCCAAAATTCCTTNACCTGCCACACCTTNACCTCCT
GTCTGTATAANGACATAATTCTACCCTGAGGTGGCTCTGAAGACTGTGTATGCACTTCAGGCAATG
GATTTCATGATTAATAATTNGGGGTCTCTTGTCTCCTTTNGGTNAACCTTCCAGCCGCCANTCCTTTT
GTTANTGACCTAGGNCNTNTGNTACTTGGGGCAAAAAAACCCAGGCCATTTTTTTTTTGGNAANCTG
CCACCTTTNAACTTCCGNTTCCCTTGGGGCCCCCANNNCAATTANATTTTTTGCCTTGCAATNAACT
TGCCNNGGCGGGCGGCTTTNAAAGGGNNTATTNNNAGCACANTTGNNGGGCCATNCTAATTNGAAT
CCGAAC

SEQ ID NO: 2296 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAATGGTAGTGANAACCAACATTTAT
TGAGTGATTATCGCATACCAGGCACTTTACAACATATTATCTACTTCTCACAACATATCCTATGAAA
TANATGGTGTAATGAAAAAATCAAGGACAAAANCAGTGAGCAAGTTAAGGAATAGAGATNTGAA
CCCAGGTCAINTAACTCAAACCAGTGCCTNTCCCATCACACGTNAGGCTTNTCTGTTNAAAGTCCCT
TAACCACACTCAGGTTCCGGTGGTTTTAACCTTGTCTGCTAGAGGCCCAAATAATGACNAATGAA
NCCNNAAAAAATTTNAAACCNAAACTGACAGGTTNTTANGGATGAACAAAAAGAATTGAAAACT
CAGTTAAATCCAANAAAAATCCTTTTNTAACCACAAANTNTNAAAGAAATTAANGAGATTTTTGAAAT
AGAGCCAANATTTGCNTNTTTGNTTTGAATNAAANTCCAACAATTCNAAATTTTAACTTGNTTTAT
TGGNTTTGGAATNTAATTTTCATNGACCATTTTT

SEQ ID NO: 2297 ACTTTTTTTTTTTTTTTTTTTTTTTTTTAAACANAGCCTTGCTCTGTTGCCAGGCT
GGAGTGCAGTGGTGCAATCTTAGCTCACTGTANCTTCTGCCTCCTGGATTCAAGCTATTCTCATGC
CTCANCTCCCAAGTAGCTGANATTATAGGNGGGCACAACCAACACCCCGCTAATTTTTGTATTCT
AGTGGAACAGGTTTACCATGTTGGCAGGATGGTCCCAAACCTGACCTNAAAGTGATCTACCTG
CCTCGGTTTCCCAATCCCTCGGNTGGGATTANAGGTGTGAGCCACCACACCCAGCCNTTTATTT
TCTTTATGGCATTTATCANAGTTTGAAATTTTTGCCATTTATTTGATGTCCTTGCTGTTTNTGNNA
NTTGTTCGNCAGGGAAAAANAGTTNAGGGAACCTNTNTTTNTGCCCCGGCCTT

SEQ ID NO: 2298 ACTTTGCCTACGGCAGCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCC
CTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCAGGATTTTAAAGCTTGACTTTGGCAATTCCCAAGG
CAAAACAAGTCAAACCTGGCATGGAGGGATAGCCACCATTTTTCANAGTCCTGGCGATGAAGTGT
GGGGAGTAGTATGGAAAAATGAACAAAAGCAATTTAAATTTCTCTGGATGAGCAAGAAGGGGTAA
AAGTGGAATGTATGTTGTAATAGAAGTTAAATNTGCAACTCAAGAAGGAAAAAGANATAACCTGT
CAANGTATCTGATGACAAATTACNANNGTNTCTCCCCATCCCCACAGTATAAAAAAGATTNTTTGCA
TGGNTGCAAAAAGAAAAATTGNTTTGCCNTGGGAGTATTCNNAGNATTTTTTAAGCANTACANCC
TNATTGACTTATNCATGNAAAGGGTCTTNTATAAANTTGA

SEQ ID NO: 2299 ACGCGGGTTATCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTT
TCCACACTGAGAAACATTTCAGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAAGGCAGTG
CAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTTCACTGGATGTTTTGAGGGGTAATG
ATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAAGTCATGGGAGAGCCA
CACTTGATGGTGGAATATAAACTTGGTTTACTGAATAGTGTGCTGTTTCATGGAAACCGAGGGCTGC
ATCTTGTTTATAGTCATCTTTGTACCTC

SEQ ID NO: 2300 ACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTAAANCCAAAATGTGTTTATTGANAT
GGTTTCCCACTCATNTTGACTCAAAGNGCTTTTAGNGCTGCTTCCTCCTGAAGGAACATCCTTNTGT
AAGCCTTGCTTTTCTCCTGTAGGCTGGCAAAGGACAGTGGANCAACCAACACAAAACTNCCG
TTTNGCATGGCTAAANACCGNGGTGATTTTATAGCATCCTGGGCNTTTCNCATNCNTNAAAGTNNG
GAATTGGGGCTNTGCNCCAAGCGTTNNTTGTGTTTCTCTNTTCTCTTCTGGAAANGGATGAA
NGAAATCCTTTGCNAAAGGCNTNTTCTCNGTGCNTAGGNTNTCACCGCCGAAAACCNCGTATTC
CTNCCNCGGGGGGATTTTTTAAAGGGNAATTCTA

SEQ ID NO: 2301 ACACAGTATGTCCCTCATTTAACCAAAAAGTGATCCCAAGTTTTGTTGGTCACT
AGATTCCTGTCCAGCTATGAGATATTTTCATGTGCAATGACATTGGAGAGTGACTTGTGCGCTGCC
AGTAGAGTAGGAGTTACAAAAGTAAGGCAAGGATTTCCATGCCACCATAAGGGAAGGATGGTG

GCAGGACCAATAGGTCATACTGTCCCCATACATACGGTCTCCAGATCTTCTGCTATTTTAAGCA
TANATTCAAGTCTCANAAAACTCATAAGCAGACTTTTCCCCTGNTCTTTNTCAGACCACACCAAAG
TTCTTGGGCCAATTTGCCTGCTTTCTAAAGCTCCAACAATAAGCANTCAGGTANCAGGGTATTG
GAACTTTTTGGATGAATTTGTATATTTTCTGCTTGGGTCTTCTGGGTNA

SEQ ID NO: 2302 ACCTTCAAAAGTGAGATTCTGAAAGCATGAGTAAATTTGGGGGTGGTAATA
TTTTCTCCATTTTCAAGAAATATCTTCAGCATATGTCCAAAGAGCAGGATTCCATTCAAATAGGCA
AGAGCAAAGTCTCGTTTTGTCTAAATAAAAAAGGAAAAATTTAAACGGGTCTTCAAAAAANAA
TCTTGTCTTGAGCCTANAACAAAAGTTGTTGGGATCANNAGGGTTACTGGAAAGTTAAAGGGAT
ATCAGGGAGANTTNAANGGATGTNNGTTAAANGAACTTTTNAGAAATATTCTTC

SEQ ID NO: 2303 GGGGTACATTACAGGATCCCTCGGCCAAGGACTGGACCAGAAGAACAACCTGGG
AATCTTGGGTCCACTTATCAAAGGTGAAGTTGGTGATATCCTGACTGTGGTATTCAAGAATAATGC
CAGCCGTCCCTACTCTGTGCATGCTCATGGAGTGCTAGAATCTACTACTGTCTGGCCACTGGCTGC
TGAGCCTGGTGAGGTGAGTCACTTATCAGTGGAACATCCCAGAGAGGTCTGGCCCTGGGCCCAATG
ACTCTGCTTGTGTTTCTGGATCTATTATTCTGCAGTTGGATCCCATCAAGGACATGTTAGTGGCCT
GNTGGGGCCCTTGGCTATCTGCCAAAAGGGCATCCTGGATCC

SEQ ID NO: 2304 ACTGCGATTAAAAAAAAGCACTTCTGCCAAAGGAACCATGTTCCAACACCG
CAAACAAGGTGTTCTGCTTAAACAGAGTAAGATACACCACCCCATCCATCCCTTCCTTCCCTGTT
CCCCCTCCCAACTTGAGTTGTGTCAATTCGCACCAAGTGTCTGGGTGGTAGGGATGCTACAGCCACCT
AAGGCAAGGAGCCCTGGGAGGTGGGAGGGCTTGCATGGTTAAGCACACCAGAAGTGAAGCGCAA
AAGGGTCAGCTTGTCTTATCTAGAATCTCTGGATGTTCTTCCAGAANGCATCCCCNATGATATC
GCANTGCCAAGGACACTGNCTTTGGCCTGGTCCGNTCACTTGCCAT

SEQ ID NO: 2305 ACGATGACATCTCAAGGAGTCACTGGCCCTAGGTTTCTGCAGTAGGATCTTA
AGATCTGATCTCTGCCCTCAAGTGAGTGCACGTGCAGTAAAGCTGTATCGTGCCATGACAGATGT
CTGCAAGGACTTTACAGTGGGGTCCAAAGGATGCCACCATCAGCTCCACCTGGGGCTCAACAAAG
CCTGAAAGAAGAAAGGGATGATGCTTCCAGCAGAAACCTGGAGGCCTGCAGCTCTGCCANCCCAN
ACANCAAGCGAGGCCATTTGNCCATCAGGGGCGNGAAGGAGGGAACTCACCCACCATCTTTTCTTA
CANNGCANTTCCATTATGAGGTTTCCACTTTAAATGCTAAATNATTAATTTTTTTTATAGNGAAT

SEQ ID NO: 2306 ACGCGGGGCTTTTTCGAGGTAGGAGTCACTCCTGTGAGGTATGGTGCTGGG
TGCAGATGCAGTGTGGCTCTGGATAGCACCTTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAA
TAGCTACTGAAGTCCTAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTANACAGAAA
GCTGGAAGTTGAAATGGTGGAGTCCAACCTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACG
TTTTTATCCATGGATGACTTGCTTGGGTAAGGACATGAAGACAGTTCCTGTCTATACCTTTTAAAGG
TATGGAGAGTGGCTTGACTACACTGTGTGGAGCAAGTTTTAAAGAANCAAAGGACTCANAATTC
ATGATTGAAANAAATNCANGCAGACCTGTTATCTCTAAACCTTGGGTTTTTAAATGACCACAACAAGC
AACNTTCANCTTACTGNTTGAAGGGTNTTGCTTCAACCAANTAAAGNCAATGGCCTTTTNAAGC
TTNTNANCCTCAAACCTTTTGGGGTTAAGNTGATCCTNAANCNCCCAATGNGNCTTTNGANANTGC
CTAAATGGAATTTTATTGNNNAAAAAANATAAAACNGNNGCTTCCNATTTTAATTAAATTTTNN
NCANAA

SEQ ID NO: 2307 ACAGTCTTTTATTAAATAAGAATACTTACACATACATTTTTCANATATTTCTAC
CTTCCTGTATGTGTTTGAATTTGTATGTAGGTAGCCACTGAAAGAATTTGGGGCCCTTGGGAGGAT
GGCATNTGGAANTCCATGAAGTAAAGAGCATNCTTTTAAAAAGCANATTTGATNGCTNNCCTTTN
AANTATATGAANATTCNGAGAATCTCTNATTANACCNCANTNCATANAANATTCCTAATACCCCT
AGG

SEQ ID NO: 2308 ACTATTTTCATGGTCCAAACCTGTTGCCATAGTTGGTAAGGCTTTCTTTAAGT
GTGAAATATTTAANATGAAATTTTCTCTTTTAAAGTTCTTTATANGGTTANGATTANTCAATANCA
AAA

SEQ ID NO: 2309 ACCCTTGGACAAATTGTTTCCAGCAAGAAGCTAACTCGACCACTGGTGATGA
AAACTGGCAGACCTGCAGGAAAAGGGAGCATTACGATTTTCAAGTGAAGAAATAAAAGATAATAG
AGTGGTCTTGTGTTGAAATGGAAGCCAGAAACTGGATAATAAGGATCTATTTGGAAAGTCAGACC
CATACCTGGAATTCACAAAGCAGACATCTGATGGAAACTGGCTAATGGTTCATCGGACAGAGGTT
GTTAAAAACAACCTGAATCCTGTTTGGAGGCCTTTCAAGATCTCTCTTAACTCACTGTGTTACGGA
GATATGGACAAAACCATTAAGGTGGAGTGTTATGATTATGACAATGATGGGTACATGATCTCATT
GGAACATTTNAGACCACCATGACANAACCTGAAANAAGCCTCCAAAAANCTCACCTGTTGAATTTG

AATGCATAAATGAAAAAAAAANGGCCAAANGAAAAAAAAANCTCAAAAATTCAGTGGTTATCAGTGNGA

SEQ ID NO: 2310 ACATTGAGAATATGTGTAAGTCATTTTAAAAAGGCTTCTTGTGATTAAAAAGA
GAAAATTCTGAAAACACAGCAACATATCTATGCTGTTTCCAAGCATACAAAGAGAATTAGAACA
TCTGAGACAACTATGGCTCCAAACAATCAGAAGAAGGGTTAGTTTTCTTTCTCCTATTGATAATG
TCAAAATGATGTGTCATCTATTGAGCCATACTATGGAGTAGCAGGCTCTAGTTAGATGCCTTCCCC
AGTTAACAGCACATATCCAAAGGACAGCTAGCCAAGTGGGAAGGTGGTAGGTAAATGCTCATCTG
GGCTAGGCAACCACCACAGCAAGCAGGTCCCCTCTCAGCCTGCCTTGGCAATGAGCTGCTTCTGA
GAAGCCCAGCTATCTGTGGTTGAGAGCTCACTCCCTTGGAGGCATTGCAGAGAACAAGAGACATGG
GCTGNGGGGCGNGCTTTTCAATAAACTGAGAGGCACATCAACATGGCACTGTNTGTGTCCACTTA
AGGATATATGATAAACATGCATTTCAAAAGGTAATTATTAANATAATTGGCCATTTTTANAT

SEQ ID NO: 2311 ACGCGGGCAAACCCTGTTGAGATAAAGCTGGCTGTTATCTCAACATCTTCATC
AGCTCCAGACTGAGACTCAGTGTCTAAGCTTACAACAATTCATCATTTTTATACCTTCAATGGGAA
CTTAAACTGTTACATGTATCACATTCAGCTACAATACTTCCATTTATTAGAAGCACATTAACCATT
TCTATAGCATGATTTCTTCAAGTAAAAAGGCAAAAAGATATAAAATTTATAATTGACTTGAGTACGCG
GGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAAC
CGCAGATAAGTTTTTTCTTTGAAAGATAGAGATTAATACTACTTAAAAAATATAGTCAAT
AGGTTACTAAGATATTGCTTANCGTTAAGTTTTTAACGTAATTTTAATAGCTTAAGATTTAAGAGA
AGATATGAANACTTANAAGANTCCTTGAGGGAAGGAAAAAGATAAAACNGTTNTAAAACNTGAC
NGGANGGTTGAGAANAAGCTNCTTNATGGAGNNAAAAANGT

SEQ ID NO: 2312 ACAGAAAGAGCACAGGCCAGCTCAGCCTGCCCTGGCCATCTAGACTCAGCCT
GGCTCCATGGGGGTTCTCAGTGCTGAGTCCATCCAGGAAAAGCTCACCTAGACCTTCTGAGGCTGA
ATCTTCATCCTCACAGGCAGCTTCTGAGAGCCTGATATTCCTAGCCTTGATGGCCTGGAGTAAAGC
CTCATTCTGATTCCCTCTCCTTCTTTCTTTCAAGTCGGCTTTCCTCACATCCCTCTGTTCAATTGCT
TCAGCTTGTCTGCTNTANCCNTNATTTNCANAAGCTTNTTNTCTTTGGCATCTATTTGCAGTCCCTN
ATNACACCAGTTTACGGCCTINGGAAAGTGTTTCAGACCANATGGCATAAGGCACNTCTTTTATTGT
TTNAGAGGNCAGGGATATAATCTTTCTNGGCA

SEQ ID NO: 2313 CGNCGAGGTACTAGAAGTATACACCACCCAGCCCCGGGGTCCAGTTTTACACG
GGCAACTTCCTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTTT
CTGCCTGGAGACTCANAAGTGGCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGCTGAG
GCCTGGTGAGGAGTATGACCACACCACCTGGTTCAAGTTTTCTGTGGCTTAAGGAAGTGTGAAGAT
ATGATCCAGTCCAGGGCTAGGCTCAGCCACCTGTCTCCTGTCCAGAAAAAAGGTGAAGATTAAGA
AGCTTTCAGAATGATTCTATGGATTAAAAATCATACAAATGGTGGCTGTTCTGAAGAATCAGTCTGG
GTATTGATTTCCTTTTCCAGNGACTGGCTCCAGGCCATGTCTAATGACCAACTCGATTCCCTGTGAN
GTTCANANAGCAAGTNAACCCAACCAACAATTNTNGTCTTNTAAGCCCTNACCNTACCTGGGACT
TCCATNCTTNTGGTGGGNTCCATTTNTCAACANTGCCTTTTTTTTTCAACTTTTTTNC

SEQ ID NO: 2314 ACACCAACCTGAACAGATTTTGTGCCACAATTTCAATTCAAAGGGTTTGTCAAT
CACTTTATGATTGTGCTGGATAATCTAGATGTAAGCAAGTCTGGAGATTTTAAAAATACGGGTCCCC
TGTATGAGAGTAGCATAGTTTATAGCATACTTTTAAAAATGGCATTTCGGTAATTTTGCCTTCTGGA
CAGAAAGATATCTTCAAATTGCAAACACATCTATTTCCACAAAACAATTTGGTCAGGAAATTTTAT
TTGAACATTCTAAAGCAATAATGCTTTAGATGTTCTTAAGTGTCCCAGACAGGATTAACAAAATTA
AGTGTCTCTAAATTACAAATTTGGCTCCTGTAGGAGTCTCAGAAAATAAACAGAGAAAACAACC
CCCCTCCAAAAGAAGTATGACACACACATTTTGAAGAAACCCCAATGTTTCATGCAATGGTAGG
CAAGATGTAAAAGCCCACCAAAATCACACATTTCTACACCAATCATCATAAGAAAAAAGT

SEQ ID NO: 2315 ACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACTTCTGAT
TCGCAAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCTGCGCTT
CCAGAGCGTAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGA
CACCAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCAC
GCCGATACGTGGAGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCAATTCTCAAAAAA
AAAAAGTACCGCGTGGCATTCAAGCATAGCAGATTAGAAGGATTTTTTTAAAGCAGTCTGAAAA
TGGGACATCTGTAGAGAAATTCATTTCTTCTTCTCCTCCGATGTGGAATGGAAGCTTTGAGGGA
AGGAAAAGTANGAAAAGAGCGGGATGGGATGGGATGGGATGGGATGGGATAGGAAGANAGGCT
GGGA

SEQ ID NO: 2316 ACTATTAAGCCATGGTCAACCCACCGTGTTCTTCGACATTGCCGTCGACGGN
AAGCCCTTNNNCCCGCTTTCCTTGAACCTGGTTGNAAAANCANGGCCAAAANACAGCAAAAAA

TTTTT

SEQ ID NO: 2317 ACTTGATTTTGAACACAGCACGAAAACATTTTGGAGCTGGTGGAATCAGCG
GATTGCTTACACTGCCACCTTTGGTATTTGCAGCTTACCAGCTGGCTTTTCGATATAAAGAGAA
TTCTAAAGTGGATGACAAATGGGAAAAGAAATGCCAGAAGATTTTTCATTTGCCACCAGACTA
TCAGTGCTTTGATCAAAGCAGAGCTGGCAGAATTGCCCTTAAGACTTTTCTCAAGGAGCACTAG
CTGCTGGGGAAATTGGTTTGAATATCATGAGACAGTCGCATATGAATTCATGTCCCAGGCATTTT
CTCTGTATGAAGATGAAATCAGCGATTCCAAAGCACAGCTAGCTGCCATCACCTTGATCATTGGCA
CTTTTGAAAGGATGAAGTGCTTCAGTGAAGAGAATCATGAACCTCTGAGGACTCANTGTGCCCTTG
CTGCATCCAAACTTCTAAAGAAACCTGATCANGGCCGAGCTGTGAGCACCTGTGCACATCTNTCTG
GTCTGGCAGAAACACGGGACAAAATGGGGAGGAGCTTCACNGAGGCAAGAGGGTNATGGAGTG
CCTAAAAAACTTTAAATANCAA

SEQ ID NO: 2318 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGCTGCCNCCACCATGAAAGAGTGG
CCNCCACATNTTATTGCATACTCAGGNGAATAAATTATTATACAATGAACNCTCCTCCATTAGGA
NACCATGCCCCTTNCAGAATGCAGCCGTAAATGCGGTAAATNTATTTACAGAGGTTGGGGTGCA
AGATGANAAAANTTTCNNCCCCAGGAATTTGAAGTGAGAATGATNTACAAATTNTCTGACAAGG
AGCAACCGGGCTTNGTCTANTGAGGTCTGAAANAATTCCTGGNANAGCGTAGGGGGGAGATTANAT
CTCGGAATNGACAGCAAGTTTGGGGACATTGCAANAAAAANAGGGGNGACCTGTGAATTGGAGCT
GGGAGCTGCTGAGGCCCATTTGTGAGGCAGAACNTTGAGNATNANTTAATTTAGGGTGATCTTNA
TTTTT

SEQ ID NO: 2319 ACACAAAGAGGGGGTGGGTGTGCGATGCAGAGTGTGTGGCCTGATGCTCCAC
GGCGTGCAGGACGGGGGGCTAATAGTAGGTTTCCTTCTCCACCCAGCCGCCAGGGCGTCGCCTGA
TGATGAGTTTTCTGACTTCGCCATATACGAAGATGAGAAGAGAGTAGGGGAAGGCACAGAACCAC
CAGGTAGGTTTGAGGGGATACATCCTAAGAGCAACACCCATTCCAGGGCAGTAGGAAAGGAAAG
CAGCCAGGGCTGTCTCTTCAAAGAGGCCAAATATCAAGATCTTGTTCTTCATCCCCCTGCTGGAAGA
CCGAATTCCTCGTCTTACAGATGACCAAGTCGGCCCACTGCACCACCACGATACTGACGAAG
AAGGCTGTGTGGCAGGTGAACCTCCAGATTTTCTCTGCTCATAGGTCCACTGCTGCCCGTACTGC
TTCCACATCTTGATCCANCGGTCATCCCANCCACTCGGAGGCCCAACAGGTGAATTGGGANGAAG
CCGTTCTCACCANAATCANAAATGTAANTAAAGAAACCTCCCAGGGCCTGATCATTCCATCTTGTC
CTTANC

SEQ ID NO: 2320 ACTGTGGAGGCTGAGGCAATTTTCTTCAGGCTAACCCAGATTTTCTAAAGCCC
AACTTAAAAAGTCTACACCTGCCAACTAAAAAAAACGCAGCCACTTGAAAAATAAACAGCAGA
GCATTGCCATCACTCCGATAAAGCTGCAGGTTTCATCACATGCACCAGACAAATCTACAGGGCTA
GTTTCAGTTCTCTCCTTTTAAAGAATTTATTAAGCCTGTTATACCACACAGTATGTTTTATACACTG
ACATACAACCTCCCTAATAAGATAAAGCAAAGACAAAAAAGTTTATCTTATTAGAAACAAGATACA
CCACCCTTATTGTCTTCAAACATTATTGCACCTTAACTTTCTTAATTTGACAAAGCATTCAAGAAA
CATCTGCAGACTAGTTTAAACAGACAAATAACACCTGTAAGCAGACATGACTGCCTAAATNGTTTA
TTAAGTATGAATTTTACAACTTTACTTATATTAGCGGTAACGGTGGAGCTGGAGAAGTTTGCGCC
TTCTCCAAGCTGCCCCGGCGAGAGCCACCATAGGTGGGNGGACTTGNGGCCCTTCAAAGGCCGGGT
TTTTCGGCCTGCANATGTCAGCCCACG

SEQ ID NO: 2321 ACACCTAGGACCTCTAGTAAACCTCATAAACATCTGCCTCCTGCAGCCCTACA
CCTCATTGCATACTACAAAGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCTGTGTTA
TCTCCAAAACAGCTCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCCAGAAGAATTGCGAAGTC
TTGTTCAAAAACGCTATGAACTTCTAGAGCACAAAAAGAGGTGGGCTTCTATGTCTGAAGAACAA
CGGAAAGAAATATTTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAAGTTGAAGGAAAAAGCCAAA
GAACGAAGAGAGAAAGAAATGCTTGAGAGATNAGAAAAACAGAAGCGGTATGAGGACCAAGAG
TTAACTGGCAAAAACCTTCCACATTGAGATTGGTGGATACCCCTGAAGGGCTGCCCAACACGCTGT
TTGGGATGTGGCATGGGTGGTGAATNTTGAAGTGTCTTCTGGGCTACTATTACCANATGCTC
ANTTCCTTAACTG

SEQ ID NO: 2322 ACCTTGTAGCATTCTGAGGACAGGCCTGATTTCTGAGAAGGGAAAGTGGTAA
AAGTATTGTCCAGTCCTTTTTAAGCTGGTGGCTGANCTTGGTGAGGTGTGTTTTTAAAGACCTTTA
GTCCGTTCTACTTTTCTTGAAGAAGGAGGACCGTAAGGGATATAAAGGTTTCACTGAATACTAAGA
GCCTGAAAAACTGCTTGGCTGATTTGACTAATAAAGGCTGGTCTGTTATCAGACTGTATAGAGGTG
GGAAGGCTAACTGAGGAATTGTGTCTGACAGAAGGGAAGAAATGACTGTGGTGGCCTTCTCAGA
CCCTGTAGGAAAGGCCTTACTTTATTTCAGTGAAAGTTGTCTATTTAGACTAAGAGGTTTTATNTC
CTGACTCGGGACATGTTGANTNAAGGTAATTTGNCAATCCTGGGTGGGGCAAATCCTCCAACCTG

ATGTGTACGGAAGGNA

SEQ ID NO: 2323 ACTGTCTCTTTTGAAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
AAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGTATG
ACAAGAAAGGGATTGTCGATCAGTCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAA
GGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACTTCTCTGTGTTCTATTATGA
GATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAGCCATTGCTGA
ACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACCGCTAATAATGCAATTACTGAGAGAC
AAGTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAA
ATTAACCGGCCCTTCCAACCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTATCCA
TGCTGCCCACAAATAGTTTTTGTACGATTATGACAGGTTTATGTCTTCTATTTGAATTNCTATTTT
CCCATGGTGGTTTTATGTTAATATTNNGGAGT

SEQ ID NO: 2324 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATTTATAAATGCATTTTAATACC
TTGCTGATAAAATAGTAACATTCCTGCTTTTGCAATCTGTATACGGAATACAGGAANATACCTGGTAAA
GGCTTTGATGTGCATATNTATCATAACCGGTNATGANAAACNCCNCGAACCACTACTTTAGTGT
TACACCATAACCACTTNTNAAAAAGGNCAGCTTCAANCTCTACTGGGTAGCTGAGTAAATAGCCG
TCCAATGTTTAAAGACTGGGGAAGCGGGGAGAAAGATGAAAGGANTTAGCAGCACACACTTCAA
AGCCANTTTTAANCNCACCGACNTTNTNAATATTAATAAATAAAGGATGCAAACNAAAAAGGCCA
TTCATCNTTTTCAAAAAGAGCATTGGCAATATTCAACCCATAAGGAGACTGTGCTTGGGGCCATC
NCTCTCTCCANCTTCTNAAANTGTTTCCGGCATTGCGAATGTTGATCACANTGGCCCCANAANGN
TCNACGGATTANNNTGGGCACCNTNNNTTCTGCCGGGNGGCCNTNAAAAAGGGNTAATTNNTCC
ANTTGNNGCCGTNCTTATTGNATCCNACCGGATCAAATTTTC

SEQ ID NO: 2325 ACAACTAAAGGCAACTGGCATGGACTCAAATATTTTGGGGAAGAAAAAGACT
AAAAGTTCTAAGGAAGAAAATGCGAACCTTGATAGTTTGAAATAGTTAAAAAGACAGTGTAGAAA
CTGCTTAGGCAGTTTGATTATGGACTATTAGATGATACTTGGGTCTGATAATGGTATAAGGAGAAT
AAAGTATTTAGGGATCCAATATTACGCCTGCAGCTTTTCCAAATAGTTCCTGGGGGAGGGGGNTG
C

SEQ ID NO: 2326 ACGCGGGGGCGGGAGAGAGGGCCGAGATGGCAGATGAGATTGCCAAGGCTCA
GGTCGCTCGGCCTGGTGGCGACACGATCTTTGGGAAGATCATCCGCAAGGAAATACCAGCCAAAA
TCATTTTGAGGATGACCGGTGCTTGCTTTCCATGACATTTCCCCTCAAGCACCAACACATTTTCT
GGTGATACCCAAGAAACATATATCCAGATTTCTGTGGCAGAAGATGATGATGAAAGTCTTCTTG
GACACTTAATGATTGTTGGCAAGAAATGTGCTGCTGATCTGGGCCTGAATAAGGGTTATCGAATG
GTGGTGAATGAAGGTTGAGATGGTGGACAGTCTGTCTATCACGTTTCATCTCCATGTTCTTGGAGGT
CGGCAATGCATTGGCCTCCTGGTTAAGCACGTTTTGGGGATAATTTTCTTCTTTAGGCAATGAT
TAAGTTAGGCAATTTCCAGTATGTTAAGTAACACACTTATTTTTTGCCNTGTATGGAGAGATTCA
AGAAATAATTTTAAACGCATACNTNATAAANACNTTGGTCNTTGGTCAAAAAAAAAAAAAAAAAA
AAAAAAAAANNTTCCTTNGCCGGACCCGCTAAGGNC

SEQ ID NO: 2327 GTTGGTGGAAGGAGTGCCAGTCCCAGGGTGACACTGGACAAGAAAGAGGC
CATCCAAGGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAAGGAAAAGGCCCAATACACTTCAC
AATTGAAAACTTGAACATAATGAAAAATGGTCAAGCTGAAAAGAGAGAAGAATTCTCGAGAC
CAGAATTTTGTGATACTGGAATCCCCGTTGAGGAACAGGACCGCGTTTTATCCTTCCGATGTCAA
GCTAGGATCATTTCTGGGATCCATATGCAGACCTCAAATCTACCAAGAGTGAAGTGGTCACCGTGA
CGGAATCCTTCTTACACCCAAGTTCCGCATCAGCCCCACCGGAATGATCATGGAAGGAGCTCAG
CTCCACATTAAGTGACCATTTCAAGTGACTCAGCTGCCAGGAGTTTCCAGAAATCATAATTCAGA
AGGACAAGGCGATTGTGGCCACACAGACATGGCAACAAGGCTGTGT

SEQ ID NO: 2328 ACTCGTCAATGGGCTCGGTTCATATATACCACCTCGAAGCCCCGTTTCCGCACT
CGCTCCACAAAAGCTGAGTTGGCCACCTGCTCTTTGCTCTCACCAGTGATGTAATAGATGGACTTC
TGTGTCTCCTTCATGCGAGAAACATACTCTGACAGAGATGTCATCTCATCTCCAGACTGGGAGGTA
TGATAGCGCAGCAGCTCAGACAGGCGGCGGCGGTTAGTGGAGTCTTCGTGGATTCCAAGCTTGAG
ATTTTATAGAGAATGCCTCATAGAATTTCTTGTAATTCTCCTTGCTTCTGCCAGCTCAGAGAAGAGC
TCAAGGCACTTCTTAACAATGTTTTTGCGAATGACTTTCAGATTTTGTCTGCTGGAGCATTTCTC
GGGAGATGTTTCAAGGGCAGATCCTCAGAGTCAACCACACCACGGATAAAATTGAGATACTCTGGT
NTCAACTCATCAGCTGTCCATGATGAANACACGGCGGACATAGAGTTGATGTTGNCTTTTCTTC
TGNTCTCAAAAAGGTCAAAGGGAGCCCGCNAGGAATAANTAGCAATGCCTGAATTCCTGACCT
TTTACAGAAAANGCTTGACTG

SEQ ID NO: 2329 ACTACGCAGGCCTTGGCATCCCTGGGGTTCACCTGGCTGACTGGGATGTTGAGGCGGGCAGCAATGTCTTCCACGGTCTCATTGCCTTCTGAGATGATGCCCACACCTTTGGCAATAGCTTTAGCTGTGATTGGATGGTCTCCTGTGACCATGATGACCTTAATTCCAGCACTTCNACATTTGCCACGGCATCAGGAACGGCCGCCCGTGGAGGGTCAATCNTGGAGATGAGCCCAACAAAAGCACANATTATCGATAGGGAAATTCCATCNTCAGTGTCAAACCTGGAACCCTTCATGAAACTTGTTCATCTTGGCAGAAAGAGGTGGCAGAAACCTTNGACTCGTTCTCCGANCCCCNAGCTCCAAATANNGCGNTTCTGAAAGGCGNCTTTANCTCTCATCCAAGGGCTGNTCCTTGCCGNGNANGANGATAAAANTGANCNGTNTATGATNCTTTCTNGGGCNCCCTTNATCAANAAACAGGTGTTTCCG

SEQ ID NO: 2330 ACATTACGCACCATAACATGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTTGACCAGCAATGACAAGAAAAAGAGGAGCACCTTTACAAGCAGTTGATATCCAATATTAAATAATTGTGGCTTTAAAAATATTTCTTTAAATCTTGCATTACACTTTTCTTTTAAACCAATCTTCCAGGAGATTAATCAATGAAATTTATAAGTTTATCAACGTATAAAATTTTTCATCTTCTGGGACTCATAGAATACAATCTGTGTTTCTGACCAGTTGAGGTAGTTAAAAATAGGGAGGGCTTTTCTAATTTTCGTATTGACTATTTCAGAAAGAAAGGTTATCTTTTACTGGTGAGCACAGTCATTGCTCTGCAGATGGGCTAGGATTCAAAGAATATAACACAGTGTGTTATCATAAAGAGTGTGAAGTTTATTTATTATAGCACCATTGAGACATTTNGAAATTGGAATTGGAACAAAAATAAAACAAAAAGCATTGTAATTGTATTTGGTGGAAACAGCAAAAAAGAGAAGTTCATTTCTTNGNCAATATACTGNGCCAACATTTGGAANTAATAAC

SEQ ID NO: 2331 ACCTTCACTATCACTGGGCGTTTTTGGAGAACATTTCTTCTGGGAGTTACCTGACATTTGGCCACTGTTTTCGGGTTCTCAGTTGAAGAACTGTTGGGTGGAGCTGACAATGAGGTCTTGGGAGATGGGGAACGGCCCATGGCTGTGGACATGCCGGCTCCTGCAGGAGAGGGAGGCTGAGTCTGTTCTCGGACACCTTACTCCCTTTGGGTCCAGCCTTTTCTTGGTTGATTTTTTCTTTTCTGAGCTCCAGGAGTTGCCTCTGCTCCTTCAGTTTGGACAGTGCTGCTTGTGGAGGGTGCAGGTGAAGTACCATCCACTTCCTTCTTCTCTTTCTTGATANGGCTGGTCCCTTCACTATTAACCTTTNTTTTTAAANAGTTTCANCCAGNTCTCCAAGCGTTGGTATNTCTTNCAAAAAATNTTNATTACTTTGCCCAAACCTCNCNCA TCACCTCNGAACTTTTTTCCTC

SEQ ID NO: 2332 ACTACTTCTCAAGGAGGATTTCATGGTCCGTCCTTTGCTCACTACAGATTTCTCTCTTCTCTGGGAAAAAATGGTCAATGCTTCTGCTTCCTTTTAATAAACTAATTTCTTGATTATTATACATTATTATTATTTCCCACTTGACACCTTCTTAGAACTTGATTGTTGGATGTGTTTTTCAATTTGGCAAAAATTCAATGTGGCTTTGCGTGGGATGTCTGAAGTGTGAGAAACAGCACTGTTGATGTTCTGGTTTTGAGAGGGGAAATATATATAGAGATGCATACATTCCCTAGAAGAACAAATGTAAAGACTGA AATAGGGCGTGCACAGAGTTAAGAGGGCTGACAGACACTACTNGGTTTGGAAATCTGTGGCTGTCAGCCATCAAGGACTGCTGTGTAGGCCANAATNTAAATCTCCTTAGGAAGAATTNTGNTAGGCNNAACCACTGNAAATGNC

SEQ ID NO: 2333 ACACATACACACCTAAAGAGTCATGGCCTTCTTAAACAGCTTTCTTAATCCTTTCTGGAAATATCCTTTGGTTCATTTTTATTGCCCTCTCTAGGCAAAACAAAGTATGTTAACGCAGGTATCAGTGAGTTATTTCTTAGCACTTGTAAGCAAATATCCTTACCAAGAGGAACCATCAACTTTTATAATATCGTAAAGCGTGGAGTTAAGATGTGTTTTTAAAAAATATACAGGCTTTTATATGCTTGATCTGAAAAAGGTAACATCCACAATGACATTCTATTACAGAGTTCTTACAATCACCTAGCCTACTACACTCTGGTATAATACTCTTTCTTCAATCTGTTTAACAGAATAAAAGTAACCAAGGTTAAAGCAATGCATTTGAACCTTAAATATAACCTGCCACAGGAATTAAGTAGTTTTATTTCCCACTCCCTATTACATAATTTCTCAGATCCCCCTTTTACCTATTGCTTAAAGTGGATAAGGCACATAGTCATGCACACAGATTTGATGTCTACCAAGTAACTGTATGGATTTATTTGNATCAATAAAAGGGNCATGAAAATTCTGGTGGAATCACATCCATGTTGCTTCACACGAA

SEQ ID NO: 2334 ACTATGCCAAACACTTATAACTTGTATAAAAAATTCCACATCCCCATATTGGCCACCTCANGATGAAAACAGATAAATCCCTAAATGTAACTGGCTCTACTCCCCTAATATTAAACATAAAAACCATGAGGAAATATAGAAATTCAAATAGAAAGTAACATAAACCTGTCATAAATCGTAAACAAAAACTATTTGTGGGACAGCATGGATGACAAATGGTCTACTGTGTAAATTTAGAAATGAGGCAGACAAAAGTTGGAAGGCCGGTTAATTTCCCTCCTTCTCCTGCTTCAGCTTCGTCTCCTTGGGTATCCGATGTCCACAATGTCAAAGTTGTCTCTCAGTAATTGCATTATTAGCGTGCTGTCTTTGTATGACTCTTCACTTAATGTATCAAGTTCAGCAATGGCTTCATCAAAGCTGTCTTTGCAAGAAAGCAGGCTTTCTCTGGGAGTTTCAAGATCTCATAATAGAACACAGAGAAGTTAGGGCCAGACCCATCTNGATAGGATGTGTGGTTGCTTTCTTTTGTGCTGTTTCAAAGCTNCTGGTATGC

SEQ ID NO: 2335 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGCTCTG

ATTGTGGCTTTAAAAATATTTCTTTAAATTCTTGCATTACACTTTTCTTTTTAAACCAATCTTCCAGG
AGATTAATCAATGAAATTTATAAGTTTTATCAACCGTATAAAATTTTTTTCATCTTCTGGGACTCAT
AGAATACAATCTGTGTTTCTGACCAGTTGAGGTAGTTAAAAATAGGGAGGGCTTTTCTAATTTTCGTA
TTTGACTATTTTCAGAAAGAAAGGTTATCTTTTACTGGTGAGCACAGTCATTGCTCTGCAGATGGGC
TAGGATTCAAAGAATATAACACAGTGTTGTTATAATAAAGAGTGTTGAAGTTTATTTATTATAGCA
CCATTGGAGACATTTNGAAATTGGAATNGGTAAAAAAATAAAACAAAAAGCATTGGAATNGGNTT
TGGTGAACAGCCAAAANAANGAGAAGNTCANTTTTCTTTGCAAATTNTACTG

SEQ ID NO: 2343 ACGCGGGCTATTTGAAGATATGACTGATTCTGACTGTAGAGATAATGCACCC
CGGACCATATTTATTATAAGTATGTATAAAGATAGCCAGCCTAGAGGTATGGCTGTAACTATCTCT
GTGAAGTGTGAGAAAATTTCAACTCTCTCTGTGAGAACAAAATTATTTCTTTAAGGAAATGAAT
CCTCCTGATAACATCAAGGATACAAAAAGTGACATCATATTCTTTCAGAGAAGTGTCCAGGACA
TGATAATAAGATGCAATTTGAATCTTCATCATACGAAGGATACCTTCTAGCTTGTGAAAAAGAGAG
AGACCTTTTTAAACTCATTTTGAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTCACTGT
TCAAAACGAAGACTAGCTATTAATTTTCATGCCGGGCGCAGTGGCTCACGCCTGTAATCCAGC
CCTTTGGGAGGCTGANGCGGGCAGATCACCAGAGGTCAGGTGTTCAAGACCAGCCTGCCAACATG
GTGAAACCTNTCNNTACTAAAAATACAAAAANTTAGCTGAGTNTNGTGACCCATGCCCTCATCCC
GGNTACTCANGAGCTGANGCAGGAAAATCACTTGCNCTCCCGG

SEQ ID NO: 2344 ACNCGGGTGATCGACCANAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGG
TCGAGGCTTGAAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCATATCAACTACATGCTGC
ANTTGGTGCTTCCCGTGCTGCTGTTGATGCTGGCTNTG

SEQ ID NO: 2345 ACTAACCTCATTTGTAATGAGGTTTAAAGAGAAGGCCAGCACTAAGCCAGGCT
CTCAGGAAAATTCAAACAACAGTTCCTCTTTGCCCTTCAATATAGCCCCCTTCTCATCTGTCATGGGC
TGAAGAACCACTGGACCTGTAAACCAAGCACACAGGTATAAGTCCACAGACCAGGTGAAGGCCT
AGATGGCAAAACACATGGGCTTTGTGACTCCACTACTGACTTCCAGGCTAAGGAAGGACTGACTT
AGTGAGCTGTTCCAAGACCCTGAGCTCATGGTTCCTGTGGCTGGGACCTCCATCATGACCGGGG
CTTGAAGAGGGT

SEQ ID NO: 2346 ACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAG
TCTACAATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTG
CCAAGAGAATTAATGTGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCTCTGAAA
CGTGTGAAGGAAAATGATCAGAAAAAGAAAGAAGCCAAAGAGAAAGGTACTACCATGCCGGGCC
AATTTTTTTTTTGTGTTGTAGAAATGAGGTCTTGCTATGTTGCCAGGCTGGTCTCAAACCTCCTGGTC
TCAAGTGATCCTCCTGCCTCAGCCTCCCGAAGTGCTGGGATAAAAGGTGTGAACCACCATACCCA
GCCAGTATTATCTTTTCATTTTCATTTTCCAGTTGAGTTTATATTGGCTACATTTGCATACCGCACA
TTGTTCAATTTTTTAAAAACCATATTTTGTGTTTGTCTGTTGCTACAATTAAGGAGAATTCNATGATA
AATTACCNCANTCNGGCCAAGTCCACTTGAGGAATNGCT

SEQ ID NO: 2347 ACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACT
TGAAATTATTCCTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGG
TGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGG
AAAGGTCTAAAAGATCTCCTTAAAACCAGAGGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGG
ACCACACAAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTC
TTAGNTTGCAGTTACACTAAAAGGNGACCAATCATGGTCAACCAATCAGCTGNTACTACTCCTGTA
GGAAGGNTAATGTTTCATNATTCCTAAGCTATTAGTAATAACTCTACCCTGCNATTTAATGTAAGC
TCTCTGAGGGGCCTNTGGTCTTAANTGGATTGTTCCGGCCCT

SEQ ID NO: 2348 ACGCGGGGCTTGTCCAGTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTCT
CCTCTCCTCTCTTCTTGTGTTGAACATGGTGCGGACTAAAGCAGACAGTGTTCCAGGCACTTACAGA
AAAGTGGTGGCTGCTCGAGCCCCCAGAAAGGTGCTTGGTCTTCCACCTCTGCCACTAATTCNACA
TCAAGTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCTNTTTGCGTGCGCCCCAA
CTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGGTTGTCCTTAAAGATTCTGAAAAAGAG
AATCANATTCCTGAAGAGGCGAGGAANCTGTGGCTTAGGAAAAAGCAAAANAGAAAAGCATTGTC
CTTTGCAACCTGATCACNCAAATGATGAAAAAGAATAGNACTTTCTCATTCATCTTGGATAACGT
CTNCTTGTTTACCCTGNTATTCTAGAATGTAAAAATTACATAAATGTGTTTGNCTCANTANCTTTGT
GAACNAGGCTTTATTAAAAAATTTAGGTTTAATTAATAAATNTTNAAAAAGTTATTGTGAAATTTGA
AAANTTTGTAANACTAATNTNGGNACTTNNCTTANNTTNNAAANATANNATNGGNTGGNGTNTCTT
TNACCAAT

SEQ ID NO: 2349 ACGCGGGATTGCAGCTTCAACTTTTCTCTTTAGTGTTCTGTTTGAAACTAATA
CTTACCGAGTCAGACTTTGTGTTTCATTTCATTTCAGGGTCTTGGCTGCCTGTGGGCTTCCCCAGGTG
GCCTGGAGGTGGGCAAAGGGAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGA
GGCTCAGTGGTGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGCCTGAGGCTGTA
ACTGANANAAAGATTCTGGGGCTGTGTTATGAAAATATAGACATTCTCACATAAGCCCCAGTTCATC
ACCATTTCTCTCTTTACCTTTCAGTGCAGTTTCTTTTTCACATTAGGCTGTTGGTTCAAACCTTTTGGGA
NACGGACTGTCAGTTCTCTGGGAAAGTGGTCANCGCATCTGCAGGGCTTCTCTNCTCTGCTTTGN
ANAACCAGGGCTCTTCTCAGGGGCTCTAGGGACTACCANGCTGTTTCAACCCAGGAAGGCCAAAA
TCAAGAAGTTGAGATGTAGAAAANTTGTAAAATAGAAAAAGTGGAAGTTGGNGAATCGGTTGTTT
TTTCTNCAATTTGGGATNATTGGCATAAAGGTTTTTAACATTTTCTCTCTTTTCTTNACCCTCCCCTT
TTT

SEQ ID NO: 2350 ACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGA
AGAAGACCAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAA
GTCTTGCAGGACTCACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCT
GCCAGCCCTATGGAAGTTCCTTTATGCATTGGAGGAAAAACATGTTGGCTTTTCTTCTTGGACGTG
GGAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAGGGGAAGAAAGATCCANTGAAGGAAA
GANGAAGGGGAAGAAAAGAAGGGGAAGAAGATCANAACCCACCTTGCCCCANGCTTANCANGGA
NCTGCTGGATNAAGAAAGGGCCTNAAATNTTGCAGGACTCACTGGATAGATTNTTTTCAACTCCT
TCANGGTGNCTTGAANTNCTGGCTCATTCCACCCTANAAGAANNTGCTTTTATGTATTTGNACNAC
ACCNTNTTGGCTTTG

SEQ ID NO: 2351 ACGAAGAAAGCATTTCNAAGCAATGAGTCTCTTAATGGAAAAAATAAAAG
AGCAATGTNATTAACCTTTCCCTCAAAGAAAGGAAAGAAACCTAAATCTGTTATGGCAAATTTGG
AAAGATAAATATTTCTAGTCCCATATATGTGTTTGTCTNACAAAGATNTNCTNTNATGATGCA
NATTTCTATGANGCAGGGGATCTTGTGGNAATTC

SEQ ID NO: 2352 ACAAAAATACAGTTGATGACTTGACAAAATGGCTACACCTAGGGCTTGAAGG
TTTGAGTTTCTCCAACAGTAACAAGGGAAAGCATGCTTCCACCTGGAGCCGAGTCCAAGCACACA
GCCAGTCTGTCACACGCATGCGTGCAAACAGGGAAAGCTCAAGCATGAGAAGAGGAAAGAGGCTG
TAGAAATTTGGGAAGAAGCCCACAATTATTTCCAGGAGAAAAAAGGGAAAAAACAGGCTGATAT
CCTTGGTAGGGGGTAGAATAACTGATTTACACTTAGGATTTATTGTTATTGTTGTTGNTGNTGTTTT
TAATGATAANCTACTTCTGCAATTTTAACCGTTGTANAAAAGATGCTACTAGTCTCCTTTCCACCT
AAGGTGAGTAAAGTGGGAGGAAATGGGAAAAGACTCAANTCTTAAGTGCGAGGAGTTAACATTC
AAGTGGCTCAANTTTTNTTGTCAANAAGGTTTANTCTTTANATTCAATTGNCANGTTNGNCNTTTAAG
GTGNAAGGGAAAAGGAAAAANAATTTCTTNCNTNTCTCGTGGATCCNTAAAGTNCNGAACCANC
TTNTTGTIANGATAACTCTTCCAAA

SEQ ID NO: 2353 ACATAGACAAGTTTCTTGTNAGACAGAAAACAGAGAAATCCACAGTAACTCT
AACACATCCCTTAAGGAATAAGCATGTATTTGTAGGAAGCAAACAAAGCTTTCCATAGAGAAACC
ACTTTCACAGGATGATTAGGTGGACCTGCAATGAAGAAAATACATTTCAAAGATGGGTTTCAGAC
TTACACCAAGTTTTCACTGAAATACTTAAAAAAGACCCTTCTCTGTATCAAAAGAAATTAATA
AAAATACATCACGGATAAAATAAATCTCAGGAAAGGTCCAAGTCTACTCAGNAGACATACATTT
GCAAATTAATATAAATTTTAAAGTTTGACAACAAAAATACTATTTGGAACCTACCTAGAAATAGGCC
AAGCTAAGTTTCGGTGNTCTGCTTTAGTNGCATTACATTGAAATGAATCTCATTCTCACTATAATTT
TTTCTTTTACTTTAATCACCCNGCGGGCTGGGNCACCTGAAATGGACNTAANANCTTTNTAAATG
TCAGAGAAATATGNNAACCTNNTTINATGTTTNC

SEQ ID NO: 2354 ACGCGGGGGCGGGAGAATCGCTTGAGCCCGGGAGGTGGAGGTTGCAGTAAG
CCAACACCGTGCCACTGCACTACAGCCTGGGCGACAGGCTGATAGGAAGATGTCCTTCAGGAAATG
CTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAG
ATATCAGCCTGTCTGACTACAAAGGAAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTCACCTT
TGTTGCCCCACGGAGATCATTGCTTTCAGTGATAGGGCAAAAGAATTAAAGAAACTCAACTGCC
AAGTGATTGGTGCTTCTGTGGATTCTCACTTCTGTCTATCTACGCATGGGTCAATACACCTAANAAA
CAAGGAGGACTGGGACCCATGAACATTCCTTTNGTATCAAACCCNGAAGCGCACCATTTGNTCAGG
ATTATGGGGTCTTAAAGGGCTGATGAAGGCATCTCNTTCANGGGCCTTTTATCATTTGATGATAA
GGGTATTTTCGNAATCACTGTAAATGACCTCCTGGTTGCCNCTCTGTNGATGAACTNTNAAAA
TATTTTCAGCCTTNCAGTTCANTGACAAAACATGGGGAAATGTGCCNACCTTGGCTTGGAAACCT
GNNNTGATAC

SEQ ID NO: 2355 ACCCGACCTCCATCTTCAACCAAGAAATGTTATCTCTAATATAAACGAGACCTC
AGTTATCCTGGACTGGAGTTGGCCCCCTGGACACAGGAGGCCGGAAGATGTTACCTTCAACATCA

TATGTAAAAAATGTGGGTGGAATATAAAACAGTGTGAGCCATGCAGCCCAAATGTCCGCTTCCTC
 CCTCGACAGTTTGGACTCACCAACACCACGGTGACAGTGACAGACCTTCTGGCACATACTAACTA
 CACCTTTGAGATTGATGCCGTTAATGGGGTGTGAGAGCTGAGCTCCCCACCAAGACAGTTTGCTGC
 GGTGAGCATCACAACATAATCAGGCTGCTCCATCACCTGTCTGACGATTAAGAAAAGATCGGACC
 TCCAGAAATAGCATCTCTTTGCTCTGGCANGACCTGAACATCCTAATGGGATCATATTGGACTACG
 AGGTCAAATTNCTATGAAAAGCAGGAACAAGAAACAAGTTATACCATTTCTTGAGGGCAAGAGGC
 ACAAATTGTTACCATCAGTAGCCTCAAGCCTGACACTATATACCGTNTTCTAAATCCNANCCCNAA
 CAGCNGCTGGATTGTTGGGACNAACAGCCCCANNTTTGAGTTTGAACTNGTNCAAAATTTTTNTTCA
 TTTTTTGGNNA

SEQ ID NO: 2356 ACGCGGGGAGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAG
 AAGGTAGAGATAAAGACACTTTTTCAAAAATGGCAATGGTATCANAAATTCCTCAAGCAGGCCTGG
 TTTATTGAAAATGAAGAGCAGGAATATGTTCAAACGTGTGAAGTTATCCANAGGTGGTCCCGGATC
 ATCGGTGANCCNCTATNCTACCTT

SEQ ID NO: 2357 ACTCTTGATGAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTG
 ACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGG
 AAAAGCCATCAAGGTGGAACAAGCCACCAAAACCATCATTTGAAAGTGTTAGACGTGGACCGCCTC
 CACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAAC
 CAGGGGACCTCCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGA
 GTTCTTCCAGGGGACCACTCCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCTCTC
 AAGAGATCTGCACCTTCAGGACAGTTCGCAGTACAGTGGGAATGGGAGGAAGAGCTCCTGTTTAC
 GTTGGAaaaaaATAGTTATGGAGGTCCCCTCGAAGGGAACCGCTGCCCTCTCGTAGAGATGTTTATT
 TGTCCCCAAAGAAATGATGGGTTTTCTACTTAAAGACAGCTNTTCAAGCAGAAATTTACCCAANTT
 CTCNTGATCTAAGANATTATGCCCCCCCCCACGAGATTTTCTTNCGGNGATTNTGGTNTTTCAG
 TTTNCGNTGATG

SEQ ID NO: 2358 ACGCGGGGCTCTTCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
 GAACCCCATGCGGGAACCTTCGCATCCGCAAACTCTGTCTCAACATCTGTGTTGGGGAGGGTGGAG
 ACAGACTGACGCGAGCANCCAAGGTGTTGGANCNGCTCACAGGGCAGACCCCTGTGTTTTTCAAA
 GCTAGATACACTGTCAGATCCTTTGGCATCCGNAGAAATGAAAAGATTGCTGTCNCTGCACAGTTC
 NAGGGGCCAAGGCNGAAGAAATCTTTGN

SEQ ID NO: 2359 ACTGGCCCTCAGTGCTGGCAAAGGTGTAGTTCCACTGGCCGAGGGGAATCAAG
 ACATAGTGGTCTTCTGCTAAGCCAAGGGCTGCCACAATGACACAGTAGCCAGATCCTGCAATTC
 CAATGAGAGCAGCCAATACAGAAGAAAGCATCGCACATCGTTTGCCACAGTTTTCATGGCCACAG
 CAGCCACAGCAGTCATCCTGTTCCAGCCCAATGAAGACAAATGCTGGCAGGAGCATCAGCAGGCC
 ACCTCCTACGATGCCAGAAAAGAACACACGAAGCGGCTGAGGTGGTTTTTCGGAGGCATACCTTG
 TTTCCCCATTGGGAAAGTAAAGCAAAATATTAGCCGCGATGCACAGGAGGGCGAGCCCCACCAGA
 GAATGTCCGATGCATCGTGACACTTCCCATAGCACATGGTGGTCTGCTAGGTTTTCTCCCCCTTCTC
 TTTGTCTTCAGCTCAGTGATACCCCAAATTANATGAAAAGTGTGCCCTTCTGGTGGANAAAGCAAA
 CACCACTCCCCGCGT

SEQ ID NO: 2360 ACATCAAGTCAGAATGATGTTGACATGAGTTGGATTCTCAGGAAACATTGA
 ATCAAAATCAATAAAGCTTACCAAGAAGGTTGCCAGGAAACGGGCACAGAAGAGATCAGTGGG
 ATCTGATGAGTAAATGTTCCCTTTGTGCAACAATTCGGGCTTTACTTAACCCTGCCCTAAATATTTTT
 CGGCCTGATGGGATTGAGTGCTAGAGAANCCATGT

SEQ ID NO: 2361 ACCGGAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAAT
 GATACTAATTTTTTGTCCATTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTA
 CCACTGTCCACGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTTCCCATCATACT
 GGTGGGGGCACATCTAACTCAACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACAC
 GGCTGGGGGTCTCTGCCTTCTCCCTTACCCTCCCGCCTCCACCCCTNCCTGCAACANAGCCCTCT
 AGCCTGGGGGGCTTGTTAGAGTANATGTGAAGGTTTCAGGTGCGAGCCTGTGGGACTACTGCTAG
 GTGTGTGGGGTGTANTGGCAGCACCCCNATANCT

SEQ ID NO: 2362 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTNAAATCAGTAGTTTTATTACAAT
 ACNCACTGACACACAATTGGAAGGAATGTCCTGACATTTCTGAGCATTTTCAGGAAAGCAAA
 TGTAACCATCCACGCAGTANAGTCATCCACACCTTTTCTTAACAAAAAGCAAAAGCTTTTACATGT
 GATAACTGAANAAAGCAAAGTTTTCTTATTCTTGTCTAAAAAACTTCAGTCTCANAAAAATAGTTAT
 TGAAGTGAGCTGANAAGGAGCACATTTCTTCCAAATGTCCAAAATCCTGCCTTAGATTATCCCC
 CTGACCTTCTAAATGACTTTTATAATACTGCAGATGGTNTTATGTTTCAGGGGCCAAATGGGATCTA

CTTTAAGGCCAACTACTCTATTGTCACTATAATTGAAAGGAAAGAATAAATTAAGAAAATTAAGT
CCTGCTAAAATGCACAAAGACTTGAANAAAATTCTGGGTGTATTAAGAGTGAGATGCTCTTTTNC
GTAACCTATTNGAAAGGNTTCAATTACCATAAACATTTTAACTCCCTTNAAGATCATTGGCAAA
AACNTTGTTCCTTTTNTGCAAAAGGGCTTTGNCCTTCCACAAGNTTGGGAGGGGAAGCNCNCCAC
CGGGGA

SEQ ID NO: 2363 ACTTGCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
GGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCATCCCTGC
AATGATTAAACACCAAGGGAAGGCTGCCTTCCCAGTCTGTGACCAGCGCCGAGTTTTGGGTCCA
CGGATAAAACGTGTCTCTTTTGTCTCTACCAGAAAATGAAAGGAATTGAAATTAAGAGAAGGGAG
AGATTGAAAGTGTAGTGCCANATTGAAAGGAGAAAGTGGTTGAGGGATAGTGAGGGGAAGTTGGG
GAAGAGAGTAAAAAGAGGCTGCTTCCAGATTTGAAATTGGTGAGATGTTTCTGGGCTCGTCGGT
CTGAGGACCTGAGGTGCTAGGTGGATCTTTCTCAGGGAAACAAAGAGCAGGAGGACGGAGGATTG
ATCTCCCAAGGGAGGTCCCCNATCCGATTCATGGCCCAAATTTTCATGTGCCTTCATGTGAAGANA
CCACCAAACAGGCTTTGTGTGANCAACATGGCTTGTTTATTTNACCTGGGGTGCAGGCNGGCTTAA
TTCCGAAAANANAGTTAANCCCCNNGTACTTTGGGCCGANACACGCTTAGGGGCC

SEQ ID NO: 2364 ACACCTTGAAGGCGAGGTTAATTAATCCTGTTGTGGAGTTTGAGGGCCGGA
ATTAAATTTTGGAGTTTTATTTAATATCGGGAGCAGATTGGGTAATAAAATGTATATTGAGAATA
AGACGGCCTTTTGACCTTTAAGGGTCTANAGGCTGTAAAGTGTCTCAGGGTTANTANCNAACAAA
CCATGANCTGGNNTGGGATTTTNTNACTNGANAAAAANNAGGCTTGNTT

SEQ ID NO: 2365 ACGCGGGGGAGGAGACTATACAACATAAGCAATTAAGCATTATATCTGCTAGT
GGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTCCAAAATGTTTGAAAT
CGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGA
CAACTCGAATATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCC
GTGTAGCATGTGTTTCAAGTGGTGATTATTCCTTGTGGCATTACCAATGCATTTCTGAAGAAGACA
AGAAAGCGCTGATTGCAAAATGCAATGATTATCGAAGGCGATTACTCAGTGTTAACATCCCGCGT
TAGANCTTGATTTACGAGATAATTATTCTCCAGGTTGGGGAATTCATCACTGGGAGCTCAANGGA
GTTCCCATTAGACTTGAAGTTGGCCACGTTGATATGAAAGAGCTGTCAGTTTGTACCCNTCNACNA
GATACTTGGAGAAAAGCTGACAGTTGCTTGAAAATGAGGCANAACTAACTTTCTAGCTTTTTTG
GAAGACATCCAGNCACNCTTTANACAANGGCTTCTNAAAACCTTAACTTATTGGTT

SEQ ID NO: 2366 AACTAGAGGCTTTGGTAAACATCTTCTCTCCAGAGGGTGAAGATAAATAA
ACCTTACAGAGATTGAGAAGTGCCACTGCAGTGAAGTTTTACAGGTCTAGTGGTTAGGGGCATC
CAGGGGTGTCCCTTCCAATGTGAAAGACAAACTGTTGCATCTGCATCCTCATGCAAGGAAGGAA
GCACACTGCCTGGTGAGCCTGTTTGAGTTCTGACATGACATTCTACATGTAGGTGTATTGCTTTGCC
CACACTCTAGGTGACATANGAGGATGCCAGCTTTGANTGGAGCCTCNCAGGAAAGGACACTGCAG
CCAGATCCAGGCCATGGCGCANTCACCATCCTTCAGACCCCTGGTGCTGAAAGTGCCANTGGTG
GGGTAATAATTTGGGGTGGACCTAACCAACACCATTTNGGANAGTCCANTGGAGGGCCTGGGATTC
TGGANTTAGGCCATGTTATNCCANAGCACAANAATTATGCCCATCCAAAAGCNGAAANANTATNT
GGGGAACNNTTTTGCCTTGTTNNTGGANGNCNTGATAAANNANAATGCTTGACCGNNGGGACCC
AAACNACNNTTGATTTCCNNGTGCCCTANAATTNNCTNTGGTAATNTTGAAATNNTTNTTGGN
CTGGCCANAACNAT

SEQ ID NO: 2367 ACCCAAAGGAAGAAGGTCTGCCCTGCCTTCTATAAACACATGCATGTGGCTC
CGTCTCCCAAGACATCATTGCAGACAAGAATTAGTGCAGAGTTGCTCAGAGGCTGTTTGCTCAGC
AACTAAAGCCAATCTGACGGCAGCCAATCCAGGTCTGGGCTTACTCCCTGGTTTGGTAACTGGCCA
AATAGAATTCAACCCAAATTCAACTCAACTTAAAGCGTCTGTTGGGTCTGTGTGCCAGGCCCTTG
CTGATAGAAGACACAAACAAAGAGTGTGACAACNATCCCTGCCCTCAAGGAAACGCTCTGCGTCT
TCNCTTAAAGCNACAAGACAACCCACCCGCAAAAAAATTACTTGNTTCCANGNATTTCTTCCAG
GGCAAGGNTTGTAATAATGTGCATGCCACACTGTTGAGTCTCAANAAGCTCCAGATGCGTGTGTCC
TGGNCNAGCAATCTGNTCATNAANGGGCAATGNGGCTGATCCNTTGNTTGGCCCT

SEQ ID NO: 2368 ACGCGGGGGTGTGCTGTAAGGGGTCTCCCTGCGCCACACGGCCGTCGCCATG
GTGAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGCCAGTTTGCCAT
TCGCTGGGGCTTTATCCCTCTTGATTTACCTGGGATTTAAGAGGGGTGCAGATCCCGGAATGCC
TGAACCAACTGTTTTGAGCCTACTTTGGGGATAAAGGATTATTTGGTCTTCTGGATTTGGAGGCAA
TCAGCNGGACAGCATGGAAGATGTGTCTCTGGCTCGGATAAGANATGGGACATCATCATTCACT
ANTTGGATGGCACAAGGCTTTCAAAAACNACATCTGAGGCAAAANTGGAACCTGCACCTNCCCGG
GCCGGCCCTCNAAAGGGGCGAATTTCANCCNACTTGGCGGCCGTTNCTAAGTG

SEQ ID NO: 2369 ACACTAACTTTTAAGTGTGTGGCACAAATGGAATAGAGACATGAAGTTTAAT
GAGATCCAAGCTTCCAATAAATGATTTACATTTGAAAAGCTATGGAAAGATACAATNATTTACT
GTTTTACAAATCAAATGCTTAAACCAAGTTTAAAAGTTGAGACCGAAAAAATTGATGAANAAAA
AATGGCCAAAAAATTAAACAAAATCNTTGGTTTCCTTTACAGGTTACTTTNTTGC GTTNNATN
TTTTTCAAATTTGCATTTTACANTTANAANTGCANANCACTTTGGATTAGCTATTGGATCNAATAC
TTTTGGGGTCCCCTGCNTCTAAA

SEQ ID NO: 2370 ACACTGAAAACCTGGACATTNTAACATTAATTTTATTAGCTCTCTGGGAGTGAG
CTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTCGCCTTCTCTTTCCTGGATGAGCTTCAG
AAGGAGTTCACTACTACTTATAACATGATGAAGACAAATACTGCTGTCAGACCATACTGTTTCATT
GAATTTGATAACTTCATTCAAGAGGACCAAGCAGCGATATAATAATCCAGGTCTCTTTCAACAAAG
ATAAATCTTTCTGACATGCANACGGGAATCAAGCTGAAGGCCTCCTATCNAATTTCCANNGCCAA
CNNGGGGNTCACCCATTGNANTCNNTCACCNTTTTTTGTGACTGAAAAGGNGCTGGTAAAATTTT
TTCTGTCAACCAGCNACTGGACCAGCAACTCTGTCAGGGATTGTAGGATTTATCCTTAGTCTTTTATG
TGGAGCTCTGAATTTAATTCGAGGCTTTTCATGCTATAGAAAGTCTCCTGCANAGNGATGGGTGATG
ATTTTAATTTACATCATTGCNTTTTTTTCCTTGGAAACAACAGCCTGCCTTTNCAAGNGGTATTTACTT
GTCTACTACACCGGCTTGGNGGAATGGCAAATNTTTTTGACCTTTNGGCTTAATCTGCTATTGCAA
NATGG

SEQ ID NO: 2371 ACTAGGCTAACTAGAAGGATCTCATCCCCATATGTGGTCTCATTTCAGGTCTA
TGGATGACTACCTTCATGCTGTGTGCGAGATGGTTTCACCCCTTGAAAATATGGTCACTTCAGCA
TAAAATAGTTAAATCTTTATAATGATCAATTCATCCTACCTCCTTTTACATGCAGCTGAAAATGA
CAGGCTAGGGACATAGAATATTGTGAACCTTTATACTGTTAGAATCACTGTCCATTAAATGATCACT
AGCTAATGGTCACTAAATTTACAAATTAAGGAAATTATATATAGAATACTGCAAAACACNAGTAA
AAAGACTGAAGTTGCGCCATTTCTGCTCANGGAAGTCTCTTCACTCCTAAGCTTCATATTGTTGGC
CTTCTGGCTNCAAAAATTCGCTATTATTACTGNTTTTTCTCCTTTTGATCTTCCTTTTGGTTCCCCA
GTGCCAGAACTTCANANCCTTCTTCGCTCAAATGCCATCTTTTTGTNTCCATTTCAAAACAGCTTC
AAGTGATGCCTTGTGGAANAAAAGGATGCTTCCCTGTCTAANATTTNCTNCTTGNTT

SEQ ID NO: 2372 ACGCGGGGCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGTT
GCTGCTCGTGTGAATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATGCTTA
CCGAATCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAAC
AGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGT
GATGAGCGTGTATCCTCTCGATCACAATCANAAGAGGATTGCACGGAGGAGCTCTTTGACTTCTTGC
ATGCAAGGGACCAATTGCGTGGCCCACTTTTACAACCTTGAAATAAATGTGTGGACTTAATTC
ACCCAGTCTTCATCATCTGGGCATCAGAATATTTCTTATGGTTTTGGATGT

SEQ ID NO: 2373 ACAATGCCTGCCATCATGGGTGAGAAATTTGAAGGATGAAGAAATCTACTGT
TTGAAATCCTCACCTTTTCAAGCTATTTTCTTTATTACATCCCAGGAGCATCCATTTTAAAGGAACT
ATTCTTTGGAAAAAACAACAAAAAACAACAAAAAAGCTAAGTTATAAGTGAAGTGT
TTGGCTGCACTGTATGTCATTTTGTGTTGTGTCATGTGAACCTTGAAACTAAGGTTACTCGTGTGC
ATAAAAAATCTAAATGAAAGGGTGTGGGTTTCCATCAATCTGATGCTGCCCATCGCTTGCCTGGG
GTCTTTGTGGATCGGGCAGGANTTNCAGTGTGCTGGGGTGTGCTCCTTCCTATGTGCTTTTGAA
TCTGAGGCTGACATTTTGTGTTGGAAGGCCAACCTTGCTCCATCANAGAGGGCNAAGTGGCNAAG
GCCAATGAGGCAGCTGTGANTTGGACAGGGTTCA

SEQ ID NO: 2374 ACAGAACTGGTATTTTTGGTGCTGATACAAGAGAAATGTATTTTTAAATATC
CCACATCCTGGATCTTTGTTGGGTATTTAGTATATTGACATATATTTTTATAAGGTGAGGTAACCTCA
GAACTTAATTTAAAAGTCTTAAATATTCTGATACAATTCAGCTGTCTTCTCNACCTTACCATANGCC
AGTTGCTTTTCAATTTTAAACCAAAGCAAGTAACATATTNAGTGACTTGAATCTTCATAAGTTTAAAA
GTAAAAACAGCNAANAACCTANTCTTTGTCTTTTNAACNCNGANCATTTTCNAGGAAA

SEQ ID NO: 2375 ACCTGTTATTGAATCAACAGAGACTATAGAGGCTAAGGCTGCCCTTAAACAG
TTGCAGGAAATTTTGGAACTACAAAAAAGAAAAAGCAGAAAAATGAAAAATACAAAATGAGC
AGCTTGAGAACTTCAAGAACAAGTTACAGATTTGCGATCACAAAATACCAAATTTCTACCCAG
CTANATTTTGCTTCTAAACGTTATGAAATGCTGCAANGATAATTGTTGAAGGATATCGTCGATAAA
TAACATCCTTCTTGANANGAAATTAANAACTCGCTGCNACAACTNANAAAGCANGAACNGATTA
TCAATNCGATGACTCAAGATTTGANAGGGNCAAATG

SEQ ID NO: 2376 AACTCGAGATGAAGATCACATTGCATTGATCATAGAACTTCTGGGGAAGGT
GCCTCGCAAGCTCATTGTGGCAGGAAAAATATTCCAAGGAATTTTTCACCAAAAAAGGTGACCTGA
AACATATCANAATCTGAAACCTTGGGGCCTTTTTNANGTTNTAGTGGANAAGNNTGAGTGGTCT

NANGAAGAAGCNATNTGGCTTCACACATTANTG

SEQ ID NO: 2377 ACATTAGCACCATAACATGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTT
GACCAGCAATGACAAGAAAAAGAGGAGCACCTTTACAAGCAGTTGATATCCAATATTAAAAATAA
TTGTGGCTTTAAAAATATTTCTTTAAATTCCTGCATTACACTTTTCTTTTAAACCAATCTTCCAGG
AGATTAATCAATGAAATTTATAAGTTTTATCAACGTATAAAATTTTTTTCATCTTCTGGGACTCATA
GAATACAATCTGTGTTTCTGACCAGTTGAGGTAGTTAAAAATAGGGGAGGGCTTTTCTAATTTTCGTA
TTTGACTATTTTCAGAAAAGAAAGTTATCTTTTACTGGTGAGCACAGTNATTGGCTCTGGAGATGG
GCTANGGTTTAAANAATATAGCACAGTGG

SEQ ID NO: 2378 ACATGGCTACACTGTGCTCTAAAATTACTTGCATTAATGAGGACATTAATTTT
AGCATTTAAAAAAGAGATTTAAAAATAACCATAGAAAAACTTGAAAACCTGACAAGCCGACTA
CAAAGAGAATTCCTCTCTGAAAATTTTCAGATGCGACGGTATGAGGGAGTTGGGTGGGCTGCTGA
CTCTGAGAGAAGTCCCGGTGACCTGAACCTATTCCAGTGAAGCCAGTCAGCAGTGAATGTGGGGC
AAGTGCATGCGGCTGGTCTACAGCTCCCATTTGCCCTGGTGACCAAGGAGCATCCTGAAGTTTCAGA
GAAGAGACTTGTGTGACAGCAGCATTGTTCCAGCTACTTGAGCAAGATCCTTCAGCAGGTAAGAA
GTGGCAGAGACAGTCCCTGCTGAAGGAGCGGGCAGGGAGTTGGCCGCCNCNCNGANCCTGGCCTT
TCCGTTAGGGNGACCCT

SEQ ID NO: 2379 ACGGATGTGGCAGCGAGAGGACTAGATATTCCTGAAGTCGACTGGATTGTTC
AGTATGACCCTCCGGATGACCCTAAGGAATATATTCATCGTGTGGGTAGAACAGCCAGAGGCCTA
AATGGGAGAGGGCATGCCTTGCTCATTTTGCGCCCAAGAGAATTGGGTTTTCTTCGTTACTTGAAA
CAATCCAAGGTTCATTAAAGTGAATTTGACTTTTCCCTGGTCTAAAATTTCTGACATTCAGTCTCAGC
TTGAGAAATTGATTGAAAAGAATNACTTTCTTCATAANTCAGCCCAGNAAGCATATAAAGTCATA
CATACGAGCCTATGATTCCCATTCTCTGAAACAAGATCTTTANTGTTAATAACCTAAATTTGCCTC
AGGTTGCTCTGNCAT

SEQ ID NO: 2380 ACACAGCTGTCAGGGAAAGTCCTGATGGCCACAGTGAAAAAGGTCATGGGTG
GAGAGAAGCAAAGTAGGAAGGATCATTTGAAGCACAAACAAATGGGGAAACTGAGCANACAATC
TCANTATCACCACATCTGCTTCAAAAATAGCACACCAACTCCCTTCCAAAGTCATCGTTACACTG
CACCATCGTGAGCAANAATGGGAAGAGCAGGATGGATTTGGCTGGCTGGAGTCACATCTGGGGAAG
CTGGCCAGGTTGGCAATGCCACAGGCGTTGTTCTTATTTTCNAGCCNTGAGNGATATNIACTTTGTT
TCCNCAGTTTTNTCCCANCTTGTTTTTAATTTATCCAGTTGCTTTGTTNCCCTTTTNGATTCCNTAT
CCCCTGCAANCCCCGNATGGTTCAANATTATCGCTNTTNCAGNTTTCATTATAATNCANACCTNT
NCTTTTAA

SEQ ID NO: 2381 ACGCGGGGCAGGCAAACCTGAGGTCTCAGAATGGCGGGCACAGGTTTGGTG
GCTGGAGAGGTTGTGGTGATGCGCTGCCGTATTTTGATCAAGGTTATGAAGCCCCTGGTGTGCGG
GAAGCGGCTGCAGCGCTGGTGGAGGAGGAACTCGCAGATACCGACCTACTAAAACTACCTGA
GCTACCTGACAGCCCCGATTATTTGCTCTTTGAAACTGACATAATGAGAAATGAATTTGAAAGAC
TGGCTGCTCNACNACCAATTGAATTGCTCATATGAAACCANTATGAGCTTCCTNCCCCCTTNTTTG
GNNAAAAAAATGACATTACTGGNATGCAAGANATGTNTAAACAATTTCTTATGGCCCATTTAG
AGCATTAAGCANTTAANATTNNANAATCTTGGAACCTAATGTAANANNTTGGATTGTAATNCCTN
NAAATNTTACAATNAAATTTTNTTNTATATTATTTGNNTACNNCNATNANATAAAAAAATAA
ANAAAAAT

SEQ ID NO: 2382 ACCATGAAATATCCAGAACATACTTATATGTAAAGTATTATTTATTTGAATCT
ACAAAAACAACAATAATTTTAAATATAAGGATTTTCCTAGATATTGCACGGGAGAAATATACA
AATAGCAAAATTGAGGCCAAGGGCCAAGAGAATATCCGAACCTTAAATTTAGGAATTGAATGGGT
TTGCTAGAATGTGATATTTGAAGCATCACATAAAAATGATGGGACAATAAATTTTGCCATAAANTC
AAATTTAGCTGGAAATCCTGGGATTTTTTTCTGTAAATTTCTGGCAACCCTAGTCTGTTAGCCAGG
GATCCACAAAGTCCTTGTTCCACTGGGNCTTTGGTTNCTCCCTTTATTGCTANGGTGGGAAAAAAG
GNTTTGCCACCATNTTACCTTACAGTGAATG

SEQ ID NO: 2383 ACGCGGGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTG
ACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATCTTTCTTACCAATCTCATGAGGAGAGGG
AACCCTGCTGAGAAACTGATGAAGCTGTANAACCAACGAGGTGGCCGAATCTTTCTCAGGATATC
AAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATTCATTTGGAA
AAAAATGTGAATCAGTCACTACTGGAACCTGCACAAAACCTGGCCACTGACAAAAATGACCCCCATT
TGTGTGACTTCNTTTGAGACACATTACCTGAATGAGCCAGGTGAAANCNATCAAAAAGAATTGGGT
GACCACGTGAACCAACTTGCNCAANGATGGNAGCGCCNNNANTCTGGCTTTGGNGGAAATATTCT
CTTNTGACAAAGNNACACCCCNCGGGGAGNACAGTNGNTAATGAAANGCTTAANNCCCTGGGGCTAT

TTTNCCCATAACCGTGGGGGT

SEQ ID NO: 2384 ACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAG
TCTACAATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTG
CCAAGAGAATTAATGTGCGTATTGAGCACATTAAGCACTCTAANAGCCGAGATAGCTTCTTGAAA
CGTGTGAAGGAAAATGATCAGAAAAAGAAAGANCCAAAGAGAAAAGGTACGGAAGTGGAAATTC
AACAGAGACTATTAATTGCACAGGATTCANAAATCATGGAAAAGCAGCTATAAGGAAAGACCAG
ATGGATGAGAACTTATGGAACCTCTGAAATATCTTGAACAACCTTCTGTAGCTTCAGATAATACA
CCAGAAACCGAAGCTGGAAAGACTGGCATTCCTCCTGGGGGGGCTTTTATTCTGGGATTNTGGGG
CACTNANTTATCATGGGTTTTCTTNAAAACCTTATGGGAATTAAGCCTTTTGAAGTTCCTTTTTTA
NACNTGAATGATGAATGNAAGAATGCATGGAGGGACTNGCAAACCTTTGGATAATAATTTTATTGT
NTTATNTNTTTTAAAAAGNGTGGTNTTTTGGNATNGAATTTGGAAANTANGNNTGAGGAATCTA
AANTNNGG

SEQ ID NO: 2385 ACGCGGGGCTCACTCTGCGCTTCACCATGGCTTTCATTGCCAAGTCCTTCTAT
GACCTCAGTGCCATCAGTCTGGATGGGGAGAAGGTAGATTTCAATACGTTCCGGGGCAGGGCCGT
GCTGATTGANAATGTGGCTTCGCTCTGAGGCACAACCACCGGGACTTCACCCAGCTCAACGAGC
TGCAATGCCGCTTTCCAGGCGCCTGGTGGTCTTGGCTTCCCTTGCAACCAATTTGGACATCAGG
AGAATGTCAAAATGAGGAGATCCTGAACAGTCTCAAGTATGTCCGTCTGGGGGTGGATACCAG
CCCACCTTCACCTTGTCCAAAAATGTGAGGTGAATGGGCAGAACGAGCATCCTGTCTTCGCCTAC
CTGAAGGACAAGCTCCCTTACCCTTATGATGACCCATTTTCCCTCATTGACCCGATCCCAAGCTCA
TCATTTTGNAGCCCTGTGCGCCGNTCAGATGTGGCCTGGAACCTTTGAAAAANTTCTCATAGGGCC
GGGAGGGAGAACCCTTTCCGACGCTACAGCCCGCACCTTCNAACCATTAACATTGGAGCCTGAC
NTCNAACCGCCTNTTNAAGNTTGCCATATAGATGTNAACCTGCTTAAACACACAAAATCTTCTTAC
TCCATCC

SEQ ID NO: 2386 ACTTCTAATTCCTCTATTACTGTGCAAATCTAGAATTTCTATGTAAAAGACA
GTGCTGGCAGCATCAAAGCCCTGTAATAGTATGAAATAGTATTAGGATTTGAAATGAAGAGATA
TTATATGAAGACATGTGAATGTCTTAATGATGGTATCATAGCAACGGCTCAGAATTTCCCTACTG
AAACAGAACTAAGACAAATCATTATTCAATAATCTTCTGAGCCAAAAGCCTAAGTTGGAAGCAA
GTGATAAAAACACAAAACCAAAGATGCATTTTCTATGACCATATGCAAGAATTTTAAGCTTTGTAT
CAACATTCTGTACCAGCACCAGCCCTCTGAAAGGAAAAAGNGTATTCTNTGGACTGTCCATCT

SEQ ID NO: 2387 ACGCGGGCAAACCTGTCAGTGAAACCCGCCGTTATTAAACGATTGATTAGTGTC
TTAAACAAAAGCACGGGTGAAGTCACAAAGAAAAAGCCTAAGTTTTTGACTAAAGGCCAGAATGC
ATTGGTAGAGCTACAGACACAAAGACCAATAGCTCTTGAGCTATATAAAGACTTCAAAGAGCTGG
GGAGGTTTCATGCTACGTTACGGTGGTTCTACAATAGCTGCTGCTGTTGTACNTGANATAAAAGAA
TGATGGGTCAGAAATTTCTACCACGTTTCTGGATACAGTGNAATAGCTACCTCTGTTTCAAGAAT
TCAGTTTTTAAGTCNAAGGAACAATGTGNCANTTGATATGNTTTTTNGATGNAGAGGAGAAAAAA
TTAAAGCNTAAATTNGCCTGCAANNAATTTTAATAATNNACCTCNGNAAAATATTTTAANTTT
GCCAATTNGNGAATAANAAGTTNTAANTGGTAAANAACANCTTTNCCTTTGGAANCNTTTATTAN
TGGGATTTTCTTNNCTTANNTTTGNTGGGGTNNNGNTGNCAAAGNAAGNTGTNTTNGATNNNGA
CTCAGTNANGNATTGTATCTCTNTTTTGTGNCCACNTNCCAATGANATNNTGGNGGTAAGTTATTG
TANTN

SEQ ID NO: 2388 ACCAGGGCAAGAAGCCGGATGTCTGCCCTTCTCAACCAGCTCCCTCAGGAG
TGTTTGCTTCAAGTGATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCT
GCCTGCCTTTTTTCTGATCCAGACCCTCGGCACCTGCTGCTTACCAACTGGAAAATTTTATGCATC
CCATGAAGCCCAGATACACAAAATTCACCCCATGATCAAGAATCCTGCTCCACTAAGAACGGTG
CTAAAGTAAAACCTAGTTTAATAAAAAAAAAAAAAAAGT

SEQ ID NO: 2389 ACACATCCAAGCCTAAAGAAAAATTAGTCTATGCCATTTTCTTAAATGGCCC
ACATCAGGACAGCTGTTCTTGGCCATCCCAAAGCTATTCTGGGGGCAACAGAGGTGAAACTACT
GGGCCATGGACAGCCACTTAACTGGATTTCTTTGGAGCAAAATGGCATTATGGTAGAACTGCCAC
AGCTAACCATTCATCAGATGCCGTGTAAATGGGGCTGGGCTCTAGCCCTGACTAATGTGATCTAAA
GTGCACAGAGTGGCTGATGCTGCAAGTTATGTCTAAGGCTAGGAACTATCAGGGTGTCTATAATTG
TAGCACATGGAGAAAGCAAATGTAAACTGGATTAAAGAAAATTTATTTGGCNAAGTTCAGCCCTT
TCCCTTTTTTCCANTTAAATTTTTNTTAAAAATTACCNNTGTAACCATTTTTAACTCTTCCA

SEQ ID NO: 2390 ACACAAAGAGGGGGTGGGTGTGCGGATGCAGAGTGTGTGGCCTGATGCTCCAC
GGCGTGCAAGACGGGGGCTAATAGTAGGTTTCTTCTCCACCCAGCCNCCAGGGCGTCGCCTGA
TGATGAGTTTTCTGACTTCGTCAATATACGAATATNATAAGAGAGTANGGNAAGGCTCATAACCAC

CAGGTTNGTTTNAGGGGATACATTCTAAGANCAACACCNNTTCNATTTCATTATTGAAAGGAANGC
 ANCCANAGCTGTTTTTTNAAAGATGNCTCAAATTTTCATNATNTNTTTTTNTNCCCTNTNTNTAAG
 ANCTATTTTCATCCTNGTTNATANAAATTGANTANATTTTATCTANTNTTNAACANTTTNNTGACT
 G

SEQ ID NO: 2391 ACTCATTTACAATAAAATAACCAAGTGAAGTTACAAAAGGCATATATTACTG
 TGAAAAGAACATACACTCCACATTTTGCCGATTAATAATGGCAATCATAATTTAACATAATAAAA
 GAATATATATCTATTGCTTTTCATCATACTTGATAAATACAGTATGAACAAAATTTTCATTGTATAC
 TTTTCACAAGATAATAAAATAAGTTAAATAGTTTTTCATATTGAGTTGTGGTGCAAGTGGTGCNAATCA
 ACTCAAAACAGCTAAAAAATTCACAGTTATTCTNCAACAATTACAANGTAAGCTCTGCGCAAGGC
 TTNCAGA

SEQ ID NO: 2392 ACAGAGGGGTCTGTTTCTAAGTCTGGAACCTCAACACGAGGCTGGGATGCTT
 CACAACGTGCTCTCTCCCACTGTCCAGCCATCTTTGGTGGTCTTCCACAGTGCTTCCCCATCCTC
 TCACACTCCTGTGGAGGGACCATGGGACGGGCCAGGAGGAAACCTGGGATCACTCTGACAGGAA
 ACGGACAAGCACAGCTGCCAGGAGCCAGTTGCTCTGGCCTCAGTCTCCAATTGTTAGTCTCAGGAT
 CAACAGAGAACTGGAAAGCAGCAGAATCTGGAGGAGCAGGAAGAGAGCCCAGAGGGAGTGTGT
 GCTGAGTGACGGTTAACAGATGAAAACAGAATTTTCATGGAGATTCTTTGTTACAAGGAGAAATTGC
 TCAGTCTCAACTCCCAAAACGTGAAAGTTGCCTGGTTTAAAGANACCTATGTTTCTTTTCAGTCTC
 TCAAACCTCCGGGAAAGATCATCAAAGTCAATGTCTTCANATGCTGAGGTGCTGGCACCANCANA
 TCAGTTGGTANTGTGTCTGGCCAAATGGCAACNTCTGGTANGGACAAAANTNGTCATTANTNTNT
 GCAGGTCTTGAAGGAAACTTTGCANAAGCTTNTGGNTTGGGTNCCAGAACCAACAATNTTGTGC
 ANAAAAAAT

SEQ ID NO: 2393 ACAGAAAACATAAATCATCGAGGTGGATACCATGGTGAAGTTCCTCGTTCTC
 GTAGCAGTATTTTCCATGCAGGAAAAAGCCAAGGACTACATGAAAACAACATACCTGACAATGAA
 ACCGGGAGGAAAGAAGACAAGAGAGAACGCAACAGTTTGAAGCTGAGGATTTTCCGTCTTTAA
 ATCCTGAGTATGAGAGAGAACCAATCACAATAAGTCTTTAGCTGCAGGTGTGTGGGGCCTACAC
 GCCCANACACACATCCCAACCAAAAAAATCTCCCAAGCTCCTCTCTTANAATATCCTTNCGAAT
 CCTAAATNTANAGCTCCAAGGATGCTNGGNCATTAANAAAAAGGTAATACA

SEQ ID NO: 2394 ACAAACCATCGCCATCAAAAAAACGCTGTTCTGACAACACTGAAGTAGAAG
 TTTCTAACTTGAAAAATAACAACCAAGTTGAGTGCACATCTGCAAAATCTTGTTCTCCAAGTCCTG
 TGTCTCCTCAGGTGCAGCCACAAGCAGCAGATACCATCAGTGATTCTGTTGCTGTCCCGGCATCAC
 TGCTGGGCATGAGGAGAGGGCTGAACCTCAAGATTGGAAGCAACTGCAGCCTCCTCAGTTAAACA
 CGTATGCAAAAACCTTGCAGAGCAACGGCGCCGTGGGATAATGATGATATGACAGATGACATTCC
 TGAAAGCTCACTCTTCTCACCAATGCCATCAGAGGAAAAAGGCTGCTTCCCTCCAGACCTNTGCTT
 TCAAATGCCATGCANCCGTTTAAATAAATTCTGCAGGTGAATATTTATTAATGAGATGTTGCGACT
 ATTTGTTAGGAGACATAGTTACAAAACAGTATATATCCGGTTTTTCAAAAATAATTCTTTAAAGGT
 CTGCAAGATGTATACTGATTGNGATCTTTCCCTNCTTATTTTTGCTTAGCTTTATTTAATAAAGCTT
 TTNTACAATAAACAAATGTTTTTGAATAAANNTTTTACTTTTTTAAAGTTGGCACCAGGCTTGTT
 CT

SEQ ID NO: 2395 ACACTTCTAAGTGTGCAGTGCAAGAGCTTGTTTATATTTTCATACTTTTTTATACT
 TTGAGGAAAAAAAAGTCAAAGAAAAAATTGTATTTGAGGGAAAAAACCATGACCAAGTAAAGGAT
 AAATTCAAAAAATAGCCTCATGAGACTTGGCATAACACTCATGGGATTCCAGTTATTATGGAGTG
 CTTCCATCCCTCTCCACCCCTTCCCCCAAAAAGGTTTTCTTTGCAAGTGCTTTTGAACTAAGAGCT
 AGTATCTTGGATTAAGTATGCCTGCTAGTGCTTTCTGATTACTCGCATTCTGTTTCTTGCTTTAAA
 AGAAGAGTAAAGACAAGAGTGTGGACCAGTATTGCAGTTCTGTAGTGTCAATTTCTTTAAAAAAC
 AAAACACCNCAATNATTTATCAAAATTNGGCATATTTNAAGCCTACATTCTAATAAAGGCACAA
 ATTCTTTTTTAATACTTGTNNACCCTCTTTAATCTCTTTATAANTNACTAATTAATCTNTTTTCTT
 NCANACTTNTGCAATAGNTTCTTTAAATCNCAACAAGTT

SEQ ID NO: 2396 ACGCGGGGAAGCCAGCTGCTCGGAAAGCTCTGGACAGATGCAGTGAAGGCT
 CCTTCCTGCTAACCACATTTCTCTGCTCTGTGACTGTGGAGCCCATGGACCAGTTAGATGATGAAG
 AGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTACAAGGAACGAGAGCAGCCACC
 CANATTTGCACAGCCTGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATG
 GAGAAGCAGCAGCAGGACCAAAAGTGGACCGCAACATCAAGGAGGCTCGTGAGAAGCTGGANATG
 GANATGGAANCTGCACGCCATGAGCACCAGGTCTATGCTAATGAGACAGGATTTNATTGAGGCNCC
 AAGAAAACTTNGGAGGATGGAAGAGCTTNCACAACCAANAGGTGCAAAAACGAAAGCTNCTGG
 GA

SEQ ID NO: 2397 ACGCGGGACCATGGCGGGCGGCGGGACNANCGGAGTCCANAGGACGGANA
AGACGANGAAGAGGAGGAGCAGTTGGTTCTGGTGAATTATCAGGAATTATTGATTCANACTTCC
TCTCAAAATGTGAAAATAAATGCAAGGTTTTGGGCATTGACACTGANAGGCCCATTTCTGCAAGTG
GACAGCTGTGTCTTTGCTGGGGAGTATGAAGACACTNTAGGGACCTGTAGTTATATTTGAANAAA
ATGTTNAACATGCTNATTCAANAGGCAATAATNAAACAGTGCTAAAATATAAATGCCCNTCCAAT
GAAGAAGCTTATCTTGAC

SEQ ID NO: 2398 ACGCGGGCAGGAGAAGAGAAGGAATTTGAAGAGAAAAAGGAAAATTAAAAAT
TACTAATTAATTTTTAGATTCAATATTTATATGGAGTTTTGAAAAATAATAGTGGCCCTGAAGGAA
TAAATTCCAGCTTTAAAAACCAAGTCTGAGGAAATATTTGGCTTCATAAAGTAAAGAGACGGTTT
GGCATTATATTACTTTTTCTGTATTTTATGCCCATAAAAATAAGCTTTATAAAAAACCAATTTCTT
GATGGACTATTAAATTCATCTTAGAATAAATAGTGAAGAATTTAATTTAGAATAAATAATCCAA
TCTGAAATAATTATACCTTCTTTCCTTGTAGGTAGTTATGAGTAAATCTGCAAAAGGCAATGAAA
ATGCCTTAAATTTTATCAATAACAGAATTATTGTATTTAAAAAAAATAAATACTTATCTTTAAAA
TAGTAAATAGGATTTTAAACAGAGAATTTTATCAGTAATAGGTGTCAGTTTTTAAAAAATTGCTT
GTAGGCTGAGCGCGGGGGGCTCACGCCTGTAATCCCANCTTTGGGAGGCCAAGGTGGGTGGACC
ACATTGAGG

SEQ ID NO: 2399 CGGCCGAGGACGCACTGAAGGAGACAAGAAAGCAGCAAAGGTTCAAAAGCT
GTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGTGCTG
TCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAAT
GCCCTTAGCCGAAGAGTTGAAAAACACTGGCGTTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGT
GACANTCAAGCCAACAGTAGATGATGACTGAANAATACCAGTTAAATAATACATTCGGATGGATT
TGGAAGTTGGAATTCCTTTTAAACAACCAAGGGGTTTTATTTTCANAGC

SEQ ID NO: 2400 ACGCGGGGATAGGGAGCGATCTCCGAGCGAGGCGGCAAGATGGACGCGGGA
TTTTTCCGCGGAACAAGTGCAGAACAGGATAATCGGTTTCAGCAACAAACAGAAGAACTACTGAA
GCAGCTGAAATTTGCAGAAATGCCTAGAAAAAAGTGGACATGAGCAAAAGTAAATTTGGAGGTTA
TAAAGCCTTGGATAACAAAAAGAGTAACGGAAATCCTTGGGTTTGAAGATGATGTTGTGATTGAG
TTTATATTCAACCAGCTGGAAGTGAAGAATCCAGACTCCAAAATGATGCAAAATCAACCTGACTGG
ATTTTTGAATGGAAAAAATGCTCGAGAATTTATGGGAGAACTGTGGCCCTGCTGCTAAGTGCAC
AAGAAAACATCGCGGGAATCCCTTCTGCTTCTCTAGAACTGAAGAAAGAAGAAATAAAACAAAG
ACAGATTGAACAAGAAAAACTGGCATCTATGAAAAAGCANGATGAAGACCAT

SEQ ID NO: 2401 ACCCTTGGAGATACTGGAGCGCTTCTGCATTACAGGCTGGTGCTCACCATTGAT
GGAACCTTCTCTGGACAGGCGGTAGACAACCTTGTGAAGTGACTGTGCCAGGTGAATTTTGGGGTT
ATTACCATTTGACCTACAGGATCATGCTCTTTTTCCAGCAAATGCCAACTGTGAGAAGGCAGT
CTGATATCCTGGTGTATCTTCTATGTCAATAAAATGTTCCCTCATCAGGAATGGTATCATCTTCGGGT
AACTCAAAAAGACCAATCAAAGACTGTAATAATGGAGTCCACAGTTTGGTATACTCAGTGTCCAT
CATTGGGGGACATTCTGTTAGTAATTTGGTTATGCCAACCGCACAGATCTTTTTCTCTACATTTCCA
GATACCTTCTGAATTTTCAGGAATAATAATTTTTTCCAAAACCATTCCAAACATTTTGGTTGTATAC
CATCAAATATTTCTTGTAGTGCTAGTGCCCATATTTTATGCAATACAAATTAATAAAGACTAAAA
AACTCTTGATAAACTTGGTTGGTTTGGAAATCTGAAATCTNTGGAATANCANAATGAANATTTGT
TTCCTATATGGGNAACTGGATTANGANGGCATGTGCTNTATTTTCTGNNTAAAAAATAAACCN

SEQ ID NO: 2402 ACGGTAAATTCAGTGGCAGATACAAAAGCTTATTTGGGAGACAGCAGATCTC
TCTAAGCACCGAAGAGTGTAGGTTGGTTTTTCAATTGCCTCAAAAAGTGCTCTGTTGTATTATACC
TCAGGACGTCGAGTTCAGGATGTAGTTTAGAGAGCAGGACATAAAGTAGTAAATTCCTCATATAT
ATCACAGCAAGAAAATTAACCTAAAAAATTTAAAGACTAAATAATCTCTTAACAGGTAAATACTA
AAAAATTAAATTGGTATTCAATTTAAAAATATACAAACTGTGCCCTTTATACTAAAGTGCATTCANT
CGTAATGTTTAAAGCCCCATAATTCCTTCTGTATGTTCTCTAATTCCAAAATAGTGTGTAACAATATA
CTACTAATCATCTTGTCTACCTTAATATTNCCTTTTGGGAATACAGTANAATCTGGGCTATTTATCA
AGGTGGAATNTTCC

SEQ ID NO: 2403 ACCCATAAATTCATCTTTCCAAAAACAGGAGCTTTTTAAAGAAAACACAT
AACAACTTTTAAAGGCGCTGGGATTCTCTGCTTCTAGATCAATGCTGGGCTAGAAAAGTAAAGT
CTGTTCTATCAGGAATCACAAGTTGGAAGTGAAGTATTCTCCAAAGTGGAAATTTCTAGAGTGTAGTG
TCACTCCAGGCAAAGATTATTCAGTTCTCATCCCCAGCATCCACAACCTACCTATCAGAAGGGTTAA
ACCAGGTCAAAACAGTCCAGCATAATTAGGCTTCATCAAAACATGTCATTATGCTCTTCTAAGATG
CAAATAAACCAAAACAGGAAATACTAAAAATAAAATATCTGACACTGCCATACAAATTGTTAGTT
CCTTTTGTATCCCCCTTCTATAACATTAACAAAGGGAATATTTTACTGCAAGAATATTTTATTT
TATACATCACTAGCCATGAATTTTTGCCATTAGTTACTATACAAATGCTGCCTAATGCCATTATCCA

CTTTAGAGATGTGGTGCAAATAACCTGTCTGGATGGGTTTGAAGTTGTGGAGGGACNTNTTGGTG
AACATCTTTNTATTTCGACTTGTCAAAACAATGGAAAAGTGGANTAATTCCAAACTGAAATGTCAA
CCCTGTGGACTGTGGCATTNCTTGAATCCATTGANAATGGTAAAAGTTNAANAACCAAAANAGCC
TTTGNTTGGTTNTGNCATTCCGNTTAACTTNGGGAANTATCACTTGNNTGTTAANCGGGAGCTGG
GNTAATN

SEQ ID NO: 2410 ACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCA
GGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTCTCTTTGAAAGATAGAGATTAATACAACCTAC
TTAAAAAATATAGTCAATAGGTTACTAAGATATTGCTTAGCGTTAAGTTTTTAACGTAATTTTAAT
AGCTTAAGATTTTAAGAGAAAATATGAAGACTTAGAAGAGTACATGAGGAAGGAAAAGATAAAA
GGTTTCTAAAACATGACGGAGGTTGAGATGAANCTTNTTCATGGAGTAAAAAATGTATTTAAAAG
AAAATTGANAGAAAAGGACTACAGANCCCCGAATTAATACCAATAGAAGGGCAATGCTTTTAGATT
AAAATGAAGGGTGACTTAAACAGCTTAAAGTTTANTTTAAAAGTTGTAANGTGATTAAAAATAATT
TGAAAGGCNANCTTTTAAAATATANGATTAAACC

SEQ ID NO: 2411 ACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTGTCTTCCATAATGTAT
AAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATATGTTACA
CTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTCATAATTTCTTCATGCAATGACATCTTCA
AAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTTAGTTTTAG
TTGCAGAAACATTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCAAACCAGTGAAAAATGAAATTA
CTACAAAATTTGAAATTTAGCTTGGGTTTTGTTACCTTTATGGTTTCTCCAGGCTCTACTTAAT
GAGATAGTAGCATACATTTATAATGTTTGCTATTGACAAGTCATTTTAACTTTATCACATTATTTGC
ATGTTACCTCCTATAAACTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTNAAGCA
GGGGGACTTTTGTATAGAAAGGTTTGGGGGCTGTGGGGGAANGAAANTNCCCTGNAGGTCTTNAC
ACGTTNTGCCTCCCATTCNTGGTGATCAA

SEQ ID NO: 2412 ACTGCTAAAGATAAAAATACAGGGAGAAAATAACTTGTAGCAATAGATCCCC
ATTGTTTATATATAGGTCTTGTTCATAATATGTCAATTATGTATTGTTAAAAAGTCCTACTCACT
TTTCAAATATGTGTACATGGTAATGTTGTCATTGTTGTTTAAAGTTGCATTTGACATTTGTTCTC
CAAAGAGTGTTTGAACAGATTTTGATAACAGTGCATACACCTTTTGTCTTTTTTGTCTCCAGCATTT
TATTTTTAGCACAGCAGCTGTGGAGCTTTTGCTGATAATTTTATTGTTGGTATCTTAGAATACTGTT
CGTCTGACAGTTTATTCTTCCATACTTGTCTCCCAAGTTAAAACAGAGCAAAAACAGATAAATTATT
TTGAGAATCATCACAAAAGGGAGTTAGAACTTGTGAGACTAAAACATAATTTCCCTAAATGTGAC
TAATGAACCCCAAACCTGTCACTATTACATTCAGTGCCATATTTATCTTTCAAAAACAGTATTTGTTTC
ACCCTAACCATCTTTGGCTGAATGAAAGGCAGTTGAAAACCATCTTTTGGTGCATACATAATATAAT
TATATTAAGTAAAGATCGGGGCTGGGCGCANTGGCTCACACCTGCAATCCCACCANCACTT

SEQ ID NO: 2413 ACGCGGGATGAAAATATAGACATTCTCACATAAGCCCAGTTTCATCACCATTT
CCTCCTTTACCTTTTCAAGTGCAGTTTCTTTTACATTAGGCTGTGGTTCAAACCTTTTGGGAGCACGG
ACTGTCAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTGTCTTTTGGAGA
ACCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCCAAAATCAA
NAGTGAGATGTAGAAAGTTGTAAAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCCCTNA
CATTTGGATGATTGTCATAAGGTTTTAGCATGTCTCTCCTTTTCTTCAACCTCCCTTTTTTCTTCT
ATNAATCAAGAGAAAACCTCAAAGTTAATGGGATGGTCCGATCTCACAGGCTAGAGANCTCGTTTC
ACCTCCAAGCATTTTCATGAAAAAAGCTGCTTCTTNAATTAATCATACAAAACCTCTCACCATGATGTG
AAGAGTTNCACAAATNCTTTCAAATAAAAAAGTAATTGACTTATNAAAA

SEQ ID NO: 2414 ACTTTGCCTACGGCAGCAGCCTGCTGACAGAGAGGATCCACCTCCGAAACCC
CTCGGCGGCGTTCTTCTGTGTGGCCCGCTGCAGGATTTTAAAGCTTGACTTTGGCAATTCCCAAGG
CAAAACAAGTCAAACCTTGGCATGGAGGGATAGCCACCATTTTNNANAGTCTGGCNATGAAGTGT
GGGGAGTAGTATGGAAAAATGAACAAAAGCAATTTAAATTCTCTGNATGAGCAAGAAGGGGTTN
AAAGTGGAATGTATGNCTT

SEQ ID NO: 2415 ACACGTTCTTGTGTCTGGCTCGGCAACAAACACCACTTCTGGCCAGTCTTC
TGGTTATGGAGTCGGACAAATGTCTGGTGAGGAGTGAGTTTACGACCCAGTGTTCACATCTACCAG
CTGGAAGAACAAGGCGAAGTTCTGGTGGCTGTCTGCGATGAATGTGCCCTTGGCTTTGGCTGGGTA
TGTCACCCGGGTAGTTTTGGGTGCAATGCTCTGATCCTTATCCACGGTGGAAGATCAACATTTGT
GATGCCAACTTCAGTGAGATCTTGAATCTGAGCTCTACGGTATTTGCAATATACCGGTTGTACC
TTCAACTTCGACAAGGAAGTCATAATAACCACTGGAAAATTTGACGTTTCATGAAATTTAGTTCAAA
AACATCCCCTACAGGGGTGAAGGATGTCTTCTGGAGGACAGTGGCTCTGGAAGCAACAGATTTAG
CATGTTCTAGTTTAAACAGTGGCCTGAGTCANANGCTGANACANAACATTTGGTGACTTGCAACCGC
AANATANCCTGTTTCATGAATGTCGGAAGCANAACCCTAAGCACAAACCACAACCTGGCACGTGGTAN

C

SEQ ID NO: 2416 ACGCGGGAGAGACCCCGGACCCAGCGCTGTCTCTTCCC GCCGCCCGAACCA
CCATGACCCACTTCAACAAGGGCCCTTCTATGGGCTCTCGGCCGAAGTCAAGAACAAGATTGCTT
CCAAGTATGATCATCAGGCAGAAGAAGATCTTCGCAATTGGATAGAAGAGGTGACAGGCATGAGC
ATTGGCCCCAACTTCCAGCTGGGCTTAAAGGATGGCATCATCCTCTGCGAACTTATAAACAAGCTA
CAGCCAGGCTCAGTGAAGGAGGTCAACGAGTCTCACTGAACTGGCCTCAGTTGGAGAATATTGG
CAACTTTATTAAAGCTATTCAAGGCTTATGGTATGAAGCCACATGACATATTCGAAGCAAATGATCT
TTTTGAGAATGGAAACATGACCCAGGTTTCAGACTACTCTGGTGGCTCTAGCAGGTCTGGCTAAAAC
AAAAGGATTCCATACAACCATTGACATTGGAGTTAAGTATGCANAAAAACAACAAGACGTTTTG
ATGAAGGAAAATTAAAAGCTGCCAAAGTGTAATTGGTCTTGCAGATGGGAACCAACAAATGTGCC
ACCAGGCAGGTATGACAGCTTACGGGACTAGGAGGCNTTTTTATGATCCCAAAATGCAAACCTGAC
AAACCTT

SEQ ID NO: 2417 ACGCGGGGGAGGTGCCGCCATTTTCATCTGTCCTCATTCTCTGCGCCTTTTCGCA
NAGCTTCCAGCAGCGGTATGTTGGGCCAGAGCATCCGGAGGTTCAACAACCTCTGTGGTCCGTAGG
AGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCATTTTCAGTGGAACAAGTGGTCTGTTACT
AGCTAAGATGTGTTTGTACTTTGGATCTGCATTTGCTACACCCTTCTTGTAGTAAGACACCAACTG
CTTAAACATAAGGATGTTTCAGTTCCCTCCATTTAACAGATATGAAGAGCATTTTAAGAGGTGCAG
CCTCTGGAAGTGGATCAAACCTAGAACTCATATGCCATACTAGATATTGTTTGTCAATAAACTTATG
ACGTGAAAAAA

SEQ ID NO: 2418 ACGCGGGCATCTGTTACCCAGATCTACCATGCAGTTGCAGCTCTAAGTGGCTT
TGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGAGGAGAC
TGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACTGTCCCAGCAGGCTGACCTGAGGA
GCATCGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGT
TTGAAGAAGGACTGGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTG
GGGACTGAGCCATCCATTAAGGAGGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAA
GAACCTTGAGTCCCTCTCCGAACCTTCAGCGTGGCCTCTGCAGCTGCTGTGCTCTCCATAATCGCT
ACCACGTGCCANTTGTGGTTGTGCCTGAGGGCTCTGCTTCCGACACTCATGAACAGGCTATCTTGC
GGNTGCAAGTCACCAATGTTCTGTCTNACCCTCTGACTCAGCCANTGTTNAACTANAACATCTAAA
TTCTGTTGCTTCANAACCCTGTCTCAAAAAACATCCTTACCCCTGTNGGGGATGTTTTTGAACCTA
ATT

SEQ ID NO: 2419 ACCCTCCAGGTCATGGTGATATTTACGCCAGTTTCTACAACCTCTGGATTGCTT
GATACCTTTATAGGAGAAGGCAAAGAGTATATTTTGTGTCTAACATAGATAATCTGGGTGCCACA
GTGGATCTGTATATTCTTAATCATCTAATGAACCCACCCAATGGAAAACGCTGTGAATTTGTCTATG
GAAGTCACAAATAAAACACGTGCAGATGTAAAGGGCGGGACACTCAATATGAAGGCAAAC
TGAGACTGGTGGAATTGCTCAAGTGCCAAAAGCACATGTAGACGAGTTCAAGTCTGTATCAAAG
TTCAAAATATTTAATACAAACAACCTATGGATTTCTTGTGAGCAGTTAAAAGACTGCAGGAGCAA
AATGCCATTGACATGGAAATCATTGTGAATGCAAAGACTTTGGATGGAGGCCTGAATGTCATTCA
ATTAGAAACTGCAGTAGGGGCTGCCATCAAAAGTTTTGAGAATTCTCTAGGTATTAATGTGCCAAG
GAACCGTTTTCTGCCTGTCAAACACATCANATCTCTTGTGCTGGTGATGTCAACCTTATAGTCTTAA
TGCAGGATCTCTGACAATGANTGAAAANC GGGAATTT CNTANAGNGCCCTTGGTTAAATTANGNA
ATTNTTT

SEQ ID NO: 2420 ACAGAAATTTACAAGAAGTCAAACACAGTGATGCCATTTGCTATGTTTTATT
TTGCTAGTAGCTTATTAACATAACATGCAAATAATCAAAGAGAAACATACATGACTTAGAGTGA
AAAATAATTCTAGAAAAGTTTCACTAGGTAAGTATGCAAATCTTATTCTAAAAATACTTCTTTAA
GTGCATGAAGCTTCATGTATTTTGCAATATTCTTGGCCTCAATATCTACCACCTATTTTTTAACCAG
ACAAATTTGAATGTATCAAGATAATTTGGTGCAAGAGAGTAACATCCATATGTATTTAATCCAAGC
TTTGAGGAACATTAAGATTTAAGGATTATAAAACTTGGCTGATTTCCATGCAACCAGTAAAAGGTT
TTGCACATCATTTGACAGTAGAAATAAAAAACAATAAATTTACAAATAAAGCATTGAGTTTGAT
GTCTATTCTGTATATGTGTGTCTTGTGTATGAAAATAGGCCTGCCTTTTCATCTTTTCTTTAAAAA
AATAAATGTTTACAAAACATTTCCCTCAGATTTTAAATCATGGAAGTAATAAACAGTAATAAAT
ATGGATACTATGAAACCTGACNCNCAGAAAACATANCCTTAAATNTTGNCCAGGATCCANATTT
TATTTA

SEQ ID NO: 2421 ACGCGGGGAAGATGAAGGTAAGTAGAAACCGTTGATGGGACTGAGAAACCA
GAGTTAAAACCTCTTTGGAGCTTCTGAGGACTCAGCTGGAACCAACGGGCACAGTTGGCAACACC
ATCATGACATCACAACCTGTTCCCAATGAGACCATCATAGTGCTCCCATCAAATGTCATCAACTTC
TCCCAAGCAGAGAAAACCCGAACCCACCAACCGGGGCAGGATAGCCTGAAGAAACATCTACACG

CAGAAATCAAAGTTATTGGGACTATCCAGATCTTGTGTGGCATGATGGTATTGAGCTTGGGGATCA
TTTTGGCATCTGCTTCCTTCTCTCCAAATTTTACCCAAGTGACTTCTACACTGTTGAACTCTGCTTAC
CCATTCATAGGACCCTTTTTTTTATCATCTCTGGCTCTCTATCAATCGCCACAGAGAAAAGGTTGA
CCAAGCTTTTGGTGCATAGCAGCCTGGTTGGAAGCATTCTGAGTGCTCTGTCTGCCCTGGTGGGTT
TCATTATCCTGTCTGCAAACAGGCCGCTTAAATCCTGCCTCACTGCANTGTGAGTTGGACAAAAA
TAATATACCAACAAGAAGTTATGTTTCTTACTTTTATCATGATTCACTTTATACCACGACTGGTATA
CA

SEQ ID NO: 2422 ACTGGATTTCCATTTAAACAGGGTTAATTTGGAAGAATCTTCAGGAGTGGA
AACTCTCCAGCTGGTGCTAGACCAAAGAGAAAAACAAGAAGTCTTATGATTTAACTCCGGTTGA
TAAATTNTGGCAAAAACCTTAAANGANGTCCTTTTNCNNAATTTGNAAATTNNTCATNTNNANTATA
TTNTTACTNAT

SEQ ID NO: 2423 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGANACANAGTCTTGCTCCATCAC
CCATGCTANAGTGAGTGGAGTGATCTCGGCTCACTGCAACTTCCGCCTTCTGGGTNAAGCTATT
CTCTGCCTNAGCCTTCCAAGTAACTGGGATTACAGGAATGCCCCACCACNCCTGGCTAATTTTTT
TTTTGTATTTTNNAGTAAAGACGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCAAACCTA
ANATGATNTGCCTGCCTCCACCTCCCAAAGTGCTTGGATAACAGGTGTGAGCCGNTGNTCCCGGC
CCCCTTATTTTCTTTTAGTGCTCAGCTCTCCCCTTTTGGCTCATGAGGTCTAGATAGGGCATATGA
ACCACATCCACCTGTCCCCAGGGACTGGTAGGCACATGNTTAANTTAGTCCAACCAGAGCCAAC
AGACACCAAGCCCGGGCTTTTGTGTCGACATACCCCGCGT

SEQ ID NO: 2424 ACAGGCTTAAATCTATGTCATTTACACTCACTGAATCATCAACCTCATCACCA
CCTGTTCCCTGGGTGTAGCGGGTATCATCTGCTTCCTCATCATCATCATTGACCAGTTCAGGACGA
AATTCAAACACTTCACGACCACTGATCACTAGTGCTTCCCTGCTTTGAAGTCAGCTTTCCTTCTTT
CCATATCTTGTTAAAGTTTATCAATCTTTTCTGTCTTTTCTTTTCTTCCAGGCAAGAAAAGATTCT
AGAGTGATTTTGGTAACATTTGGACCTAGGGCAGAACGCTCTCTCTCAATTAGATCTTCTAATGAA
ATTTTCATCTTCTTTCTTCTTTCTTTTATCTTTTTTCAACACAAATCCAGGAGGAAGTGCATGACG
ATAAATGCAAAATACACCCCTCCAGGGCATAACCCAAAACAGCCATACTTGTTGTTTTCAATAGC
TTCCAGGAAATGCTTGCACACTATTGAGTTTTNGGTTTTT

SEQ ID NO: 2425 ACAAAAAAATTCCCTTGCTTGACAGAGTTTTTGTACTTTTTACTTAAATATTTA
GAGTTAAGAAAAAATCAAATTTAAATCACTATTGATGGAAGCTTATATTCCCTATGAATATATA
CATGTATGCATATATACATCTCTGTATGAATCACTCAAAGCAATTTTAAACATCATTCTTTTTTTTG
TATTTAAAATTGCCCTTTTAAACATTTAGAAGTTCAGAGGTGGAGGCTTTAATGGAATTTTTCCC
AGAGTAAATTTCTTGGATTGAAATTGTCCAGTTCTTCTACTGTAGTTTATTTCTGGGTGTGAATA
ACACATTATCTGTTGCAATGATGCTGCTTGAGGCTGACAGAGAAGTGGATATGCTGCTATTTCCAA
AAGTGTCACTGGATGGCTTAGAAAAAGCAGTGTGAGAATGTGAGCCCGGACTACCAAACAGGCC
ACAGAACTGCAACCTCCAAAGGCTCCCGCTACAGGTGAGAGTCTTCTTTTCTTTTCTTTTGGAT
GGAGTCTTGCTCTGTTGCCAGACTGGAATGCAGTGGGTGCGATCTGGGCTCACTGCAATCTCCCT
CCGGGTTCAAGCGATTCTNCTGCCTCANCTCCGAGTACTGGGACTACAGGTGCGCGCCCCAANC
CC

SEQ ID NO: 2426 TACGGTCTGAGACATCACCGCCAAGCTGGGCATCGGGGAGATGGCCGAGACT
GACCCCAAGACCGTGCAGGACCTCACCTCGGTGGTGCAGACACTCCTGCAGCAGATGCAAGATAA
ATTTCAAGACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTAGTCGATTGATGATCT
GGAAAAGAATATCGCGGACCTCATGACACAGGCTGGGTGGAAGAACTGGAAGGTGAAAACAAG
ATACCTGCCACGCAAAAGAGTTGAAGGTTGCTAATAATTTATACTGGAATCTGGCATTTTTCCAAG
CCAAGAGAAGATCGAATGGCTTTTTGCAGCTAACTACTATGTGTAGACAGGTTTTATATTATAAAG
TATGCATTCTTATCACCTAGTATATAGTTAGTTTGTAGAGTGATTCCCCCAGTTTCTTGAACATG
GTATCTTCACATCTTGGACCTTGGTCAGTTGTGCTATTCAATTATTAACACTAAAACCTTTGGNGGTT
CTTACATAACATTG

SEQ ID NO: 2427 ACCTGTGGTATGAAGCCGACAAGCGCCGCTGTTCCACCCCTGGATTAAGCC
CGCAGACACAGAACCACCTCCGCTGCTTGTTTACAAGTGGTGTCAAGGCATCAATAACCTGCAGG
ACGTGTGGGAGACGAGTGAAGGCGAGTGCAATGTATGCTGGAATCCCGCTTTGAGAAGATGTAT
GAGAAGATCGACTTGACTCTGCTCAACAGGCTGCTGCGCCCCATCGTGGACCACAACATAGCCGA
CTACATGACAGCCAAGAACAACGTCGTATCAACTATAAGGACATGAACCATACGAATTCATATG
GGATCATCAGAGGCCTGCAGTTTGCCTCATTCATCGTGCAGTATTATGGCCTGGTGTGATTGTC
TTGTATTGGGATTGCACCGGGCCAGTGAGATGGCTGGGCCCCCTCANATGCCAAATGACTTTCTCA
GTTTCCAGGACATAGCCACTGAGGCTGCCACCCATCCGTCTCTTCTGCAGATACATTGATCGCAT
CATATTTTTTTCAGGTTACAGCANATGAGGCTCGGGACCTGATTCAACGTTCTGTANAGANCACC

CTGACCCCAATAATGAAAACATNGTTGGCTATAATAANAANAATGCTGGCCCCNANATCCCCAT
TGCCCT

SEQ ID NO: 2428 ACAGGTGGAACAATCCAAAGTTTAAATCAAAGAAGGTGGTGTTCAGTTGCTG
CTCACAATAGTTGATACCCCAAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTT
ATCGACTACATTGATAGTAAATTTGAGGACTACCTAAATGCAGAATCACGAGTGAACAGACGTCA
GATGCCTGATAACAGGGTGCAGTGTGTATTAATCTTCATTGCTCCTCAGGACATGGACTTAAACC
ATTGGATATTGAGTTTATGAAGCGTTTGCATGAAAAAGTGAATATCATCCCACTTATTGCCAAAGT
AGACACACTCACACCAGAGGAATGCCAACAGTTTAAAAAACAGATAATGAAAGAAATCCAAGAA
CATAAAATTTAAATATACGAATTTCCAGAAACAGATGATGAAGAAGAAAAATAAACTTGTAAAAA
GATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTATCATTGAAGTTAATGGCAAAAG
GGTCAGAGGAAGGCAGTATNCTTGGGGTGTGCTGAANTTGAAATGGTGAACATTGTGATTTTCA
ATCCTAANAATAATGTTGATAANAACACAC

SEQ ID NO: 2429 CNCGGCCGACGTACTTCCACTCTTNCTTTAAANCTTGCCATTTGCTTATCA
NTTCTCTGGGGCTGACCCACTCTAACATGACAAAGGATTAAGAACAAAAGATAGTCCTCCNAGG
TTACAGGCTTGTANGGGCANATAGGATCTACNAACCTTGGAAGAAAAACAAGGTGCTCAGGAATT
CATTCACCTAACATTTCACTTNCNACCCACCNCCTTATNTGCTCCCACTTTGGCAGGTGATCTCTCT
TTGGCTTTAAANCANANGGGGGNNANTGTNCCTTGTTTNTGAAATGTTTGCAANANCNNATCTAT
GCGNATNTTCAA

SEQ ID NO: 2430 ACTTTCCACTCTTCCTTTAAAACTTGCCATTTGCTTATCAGTTCCTCTGGGGC
TGACCCACTCAAAACAAGACAAAGGATAAAGAACAAAAGATAGTCCTCCGAGGTTACAGGCTTGG
AAGGGCAGAGAGGAGCTACGAACCTTGGAAGAAAAACAAGGTGCTCAGGAATTCATCGCCTAAC
ATTTCACTTCCCCACCCACCCCTTAGTGCTCCCACTTTGGCAGTGATCTCTCTTGGCTTTAAAGAG
AAAGGGGGAAATGTGCCTTGTTTTGCAGGTGTGCAACAACACAGCTCTGGCATCTCAAGCAGCAG
GGGAGAACTCTAAGACAGAAGAATTTCTTCATGAAAATCACGGTATGTTATCACATACTGTCTCCA
TGGCCCATACAAGGACTCCTTAAGGTTCTCTCTAACATACAACATATCCCCACAACCTCAGTAGAG
AGGTTTTCTTCCCACTGGAATAGAAATCCTTTGCCTCATTTATTACAGTCTAAAAATCCACACTGGC
TTTTTGATTCTTTCTAGCATGAGCTCANACACTATACGTCAAAAGAATGCCAGAGGCATTTTCTT
AGGTAGAGACTTACCTGCGGGCTGAGACTTCGGCCCCACATAGCTCAAATCAATTCTGCANCTGCT
CCTT

SEQ ID NO: 2431 ACCAATTAAAGTTGAACAAATTGAAGCAGGGACACCAGGCCGACTCAGAGT
AGTAGCTCAGTCCACCAATAGTGAGGAAATCATTGAAGGAGAATATAATACGGTGATGCTGGCAA
TAGGAAGAGATGCTTGCAACAAGAAAAATTGGCTTAGAAACCGTATGGGTGAAGATAAATGAAAA
GACTGGAAAAATACCTGTACAGATGAAGAACAGACCAATGTGCCTTACATCTATGCCATTGGCG
ATATATTGGAGGATAAGGTGGAGCTCACCCCACTTGCAATCCAGGCAGGAAGATTGCTGGCTCAN
AGGCTCTATGCAGGTCCACTGTCAAGTGTGACTATGAAAATGTTCCAACCACTGTATTTACTCCT
TTGGAATATGGTGCTTGTGGCCTTTCTGAGGAGAAAGCTGTGGAGAAGTTTGGGGAAGAAAAAT
TGAGGTTTACAATAGTTACTTTTGGCCATTGGAATGGACNATTCNTCAAGANNATAACAACAAAT
GTTATGCAAAAATNATCTGTATTACTAAAGACAATGAACGTGTTTGTGGGNCTTTNACGTTCCCTG
CCGGGCGGNCNNTTAAAAGGGCT

SEQ ID NO: 2432 ACGCGGGCCAGCAGTTACTCATGGAATATATTCTGCGTTTATAAACTAGTTT
TTAAGAAGAAATTTTTTTTGGCCTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATA
ATAATGATTCTTAAATGCTGTATGGTTTATTATTAAATGGGTAAAGCCATTTACATAATATAGAA
AGATATGCATATATCTAGAAGGTATGTGGCATTATTGGATAAAAATTCTCAATTCAGAGAAATCA
TCTGATGTTTCTATAGTCACTTTGCCAGCTCAAAAGAAAACAATACCCTATGTAGTTGTGGAAGTT
TATGCTAATATTGTGTAACGTATTTAAACCTAAATGTTCTGCCTACCCTGTTGGGTATAAAGATATT
TTGAGCAGACTGTAAACAAGAAAAAAAATCATGCATTCTTAGCAAAATTGCCTAGTATGTTAA
TTTGCTCAAAATCAATGTTGATTTTATGCACTTTGTGCTATTAACATCCTTTTTTTCATGTAGATT
TCAATAATTGAGTAATTTTAAAAGCATTATTTAGGAATATAGTTGNCACAGTAAATATCTTGGTT
TTTCTATGT

SEQ ID NO: 2433 ACTCTCCCTACTTCCCTTAAACTCACTCGTATTTCTGAAGAACAGTAATAAC
TCTTATGAGCCTAATACATCCCTTCATTCTATTAGGTCTTTTCGTCTTACCCTACATTTTGCAACA
GGGCTTTATGAAGCCACCCCACTTAGGCTGAGCCCCAAAAAACTAGTCATCCCTACTATCTT
CTGTCCGGTCATACTCCTATTCTCCATTCTCAACTACTTATAAATGCCCTACTCCTGTTTACACTGC
TGGTTTACACTGTTTCTTCAAACCATCACAGCTGATATCTCTTGGTGCTATCCCCAACTGCCACTC
TTAACTCCCTCTTAGAGTGGGTAGATGATCTTTGCTGGCAAGGCACTCTCCAATACTTCCACCCTG
ATGAAGTTCTATTCTTTACTTTTTACTCACTCTTATTCTCATTCCCATTTCTTATGCCACCCTCTACCT

CTCCCCAGCTATCTCCACCACACTATCAACCTTACCCATTCTCTCCTAGCCGCTTCTAATCTCTCCT
TGGCGAACAACCTGCTGGCTTTGCATGTCTCTTCTTCCAGTGCCTACACAGCTGCCCCGCTTACAG
ACAGACTGGGCAACACCTNCCGCTCCCTACACCTTTTGAACCTCCTTTAACAGCCCTCACCTTT

SEQ ID NO: 2434 ACATAGTGTGCGAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTAAAC
GGCACGTTTTTGTCTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC
CCTTTTTGCTGTAATTGCACCAGTTTTAAAGCCTCTGGACAGAGCAGTATTTTCGTTTAAAACTTTGT
TTTTCTTAAAGCTTACAGTGTGGCTAATTCTCCTCCCTTTTACAAGACGGGGGCCGGAGGGT
GGACACTGGTGGCAGGTTAAGGGATACTGCACTTTAAGAAGCCTGCTGATTGAAGTGTAACATN
GGAGAAATNAGGGGCTGATTTTTTAACTGTGTGAGATATT

SEQ ID NO: 2435 ACTTGGCTTGGAGACTGGCGCGGCGTTTCGTGTCCGAGTTCTCTGCAGGTCAC
AGTTTCCCGGTAGTTTCAGCTGCACATGAATAGAACAGCAATGAGAGCCAGTCAGAAGGACTTTGA
AAATTCATAAATCAAGTGAACTCTTGAAAAAGGATCCAGGAAACGAAGTGAAGCTAAAACTCT
ACGCGCTATATAAGCAGGCCACTGAAGGACCTTGTAACATGCCCAAACAGGTGTATTTGACTTG
ATCAACAAGGCCAAATGGGACGCATGGAATGCCCTTGCAACCTGCCCAANGAA

SEQ ID NO: 2436 ACTTGTATTGATTATGTAGTTCAGTAAGATGTGCCCAAGTCATTTTCAGAAAGA
AAGACCCTTCAGTTTTGATGCATTTTGCTGAACACTTGGGTAGTGAGTGGGATCCTATCCAGTTGA
GGAATGCTTGCAATGCTCATTGAAGGGATTTGCTTTGGGACTTTGTTCATCTTTCANAAAGGAAACA
TATTGTNTATTTAGGCCCATTTGTNATTGNTTGCCTTATNTTTGGTAANTATTANTTGAATGGGATTT
CTGANTTNATTGACTTNTGATTNTAAATCTTAATT

SEQ ID NO: 2437 ACAGGATGAATTTAAATGTGTTTTTCTGAGAGACAAGGAAGACTTGGGTAT
TTCCCAAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATG
TTCTGTAAAGACAACAAATCCCTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTA
CCTCTAAAGCAAATCTGCAGTGTTCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAA
TGAAATCTCAAAACAGAGCTCAGCTGCAAAAAAGCATATTTCTGTGTTTCTGGACTGCACTGTTG
TCCTTGCCCTCACATANACACTCAGACAGCCTCACAAACACAGTAGTCTATAGTTAGGATTAATAAT
AGGATCTGAACATTCAAAAGAAAGCTTTGAAAAAAAAGAGCTGGCTGGCCATAAAACCTAAAT
ATATGATGAAGATTGTAGGACTGTCTTCCAAGCCCCATGTTTCATGGTGGGCAATGGTTATTTGGT
TATTTTACTCAATTGGTTCTCTCATTTGAAATGAGGGAGGGACATACAGAATTNGGAACAGGTGTT
GCTNTNCTAAANCCCTTATGCNACCCCTNAACCACGAGGAACATCCTTGCCNGGCGGCCGTTNAAA
GGGC

SEQ ID NO: 2438 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAAGAAGCATTCTCAGTTCAT
AGGCTATCCCATCACCTTTATTTGGAGAAGGAACGAGAGAAGGAAATTAGTGATGATGAGGCAG
AGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAANAAAAGCCCAAGATCGAAG
ATGTGGGTTNA

SEQ ID NO: 2439 ACATTAGCACCATAACAGGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTT
GACCAGCAATGACAAGAAAAAAGAGGAGCACCTTTACAAGCAGTTGATATCCAATATTTAAATAA
TTGTGGCTTTAAAAATATTTCTTTAAATTCTTGCAATTACACTTTTCTTTTAAACCAATCTTCCAGGA
GATTAATCAATGAAATTTATAAGTTTATCAACGTATAAAATTTTTTTCATCTTCTGGGACTCATAG
AATCAATCTGTGTTTCTGACANTTGAGGTAGTTAAATANGGAGGGCTTT

SEQ ID NO: 2440 ACGCGGGGGCACAGCCAGAGCCTAAAGGCTAGAGCCGGAGCTGCCGCGCCA
GTCGCTAGCAGGTCTCTACCGGCTTATTCCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGA
GACGTTTCTGCCTCCCTCTTCTTCCCTCCGCTCTTCTCTTCCCTCTCGTTTAGTTGCTGGGAGCT
TGAAAGGAGAAAGCACGGGGTCCGCCAAACCCCTTCTGCTTCTGCCCATCACAAAGTGCCACTAC
CGCATGGGCCTCACTATCTCCTCCTCTTCTCCGACTATTTGGCAAGAAGCAGATGCGCATTTTGTAT
GGTTGGATTGGATGCTGCTGGCAAGACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCA
CCACCATCCTACCATTGGTTTTAATGTGGAAACAAGTAGAATATAAAAACATTTGTTTCAAGT
ATGGGATGTTGGTGGGTCAAGATAGAATTAGGCCTCTCTGGAAGCATTACTTCAAAAATACCCAAG
GGTCTTATTTTGTGGTANATAGCAACGATCGNGAAAGAATTCAGGAAGTANCANATGAACTGCA
AAAAATGCTTNTGGTANATGAAATTGANAAATGCANNNGCTNNTACTTTTTGCAACAAACAGGAT
TTGCA

SEQ ID NO: 2441 ACATTTAGAATTTTTGGCCGGGTGCAAGTGGCTCACACCCGTAATCCCAGCACT
TTGGGAGGCCAAGGTGAGCGGATGGCTCGAGGTGAGGAGTTTGAGAGGTGAGGAGTTCAAGATCA
GCCTGGACAACATGGTGAAACCCCGTCTCCACTAAAAAATACAAAAATTAGCCAGGCATGAGGG
TGATGCTGTANCCACGCTATTCAAGAGGCTGAGGCAGGAGAATCNCTTGAACCTGGGAGGTG

GAGGTTG

SEQ ID NO: 2442 ACACAATGTGTAGCTCATATGAAAACCTCATGACAAGTCATTGAGTTCTGTAACTGCCATACAACTTACATGTGTAATATTAATTGCACAAAGTATATCAAGACATATTGAAGAAACACAAAATTAAGTGCTATTTTAACGGTTCATCTTTCAGTATGTGAATACGTATACAAATTTAACTGCACAGTTTTGTTGAAAATAAGTTTCAACAATAAGACTTCAGTTGTTAAATTAACCCAAAATATAACTTTAATTAATTACATCACTACAATATTAATCTCTTATCTTGTTTACATTTTTGGTGTGGGACTTTGTAAAAAAAATCCAANTTCTAGAATTGCAAAAACCTTCATTGTTGCCACTGAGAGAGCAACATATNGTNCGCGGGGGGAGACCANANATCTANCGACTGAANCANATTGGCCAAACCGNGTGGGT

SEQ ID NO: 2443 GATCTACCATGCAGTTGCAGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCC AAGAAGCACTCATTTGCCCTTACTGNTCGTCTNAGCAAGGAGGANACTGTGCTGGCAACANTCCAN GCTCTGCAAAACAGCATCCACCTTGTCCCAACAGGCTGACCTGATGAGCATCTTGGAGGAAATG AGGACCTTGTTGCTCGGCTNNATGAACTCNGGGGGCGTNTATCTCNNNTTTAAAAAATGACTGG AAACAACATCCTTTTTTTGTGGGCTTGCCACCCTACAAAGCTCATTGNATCATTNNTGGGACTTGA CCCATCCATTAANGGNAGGATNAGGTATCCAACCTTGATNAACCCNATCTTTAACAATAANTAAN TTTTGAATTCNCTCTTACTAANCNTTTAAACAGGGAGCCTCTTGCAACNTGGTTTCCTTTGAA

SEQ ID NO: 2444 GTACATACACACACACACACANCNCAGAGAGAANACAGAGAGAAANTCCTG GTCCAAAAGATCACATGACCTTACTAGTGTTCCTCCANTGACTGTAATTTATAAACTAAAAATTTT TACAATCCACTGCTATCTTCTCTGTCCTGAGTTTNGGTNGACTTTAATGGATGCTCCAGCAATAA CCAGANTCTAGGACATGCAAACTCACTGTGAGCGAGAGGCTAGGGATCTGCCCTAACATAGGAAC CTGTTTCTAAGCCTGAATGAGGCAGCTNTGNTAGANTTAATGACAAATCAATGCCAGNGAAN TATTCTGCAAACAGGGTAGCTTTTGTGCTTTCTTTTINATTATTINNTTTTGGGGAGATAAAAGTTTT TGANCCATGGGTCTACTAATTTATCACTAAAGGACTGGGACCACATTCTNAGNAANACANCATGG TNNTTACTGTCCANGGAGGGAAAAATCCC

SEQ ID NO: 2445 ACCTTAAAAGTGTCTCACCTAGAAAGGCCTCTACCTGTAATCACATTAATTTTT CTAAAGACAATTTGGTGTGTTTGAAGATAAATGTCATTAGTCTATGATAATAGCATCATAGGACAAT TAGCCATTTAGACTTGACCATATTTTCTCTTTTAGCATATAGCCATCTTGATATTTAGGTGGGAG ACTACTCCAATGGAGCAACAGTTTCATTTTACATGATTGGATTAAANAATTTACAAATTTTAAA CTCATAAGAATTCTTAAATAATTTNAAAAATNGAAACATTNNACCCANAGTCTANCANCNTAAATA NTTTTNAAAAATACTTCATTG

SEQ ID NO: 2446 ACGGGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATA CTGCCGTCTTGCCAGTTTATTGGAACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGG AGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTATTCTGGATGCCTACGGTCTCCATGGCAT GGACATATCTGCCATTGACTTGATAAACATCENNAAGCTTTTCAGTCGTGTGGNGTCTTTTATCTG AATACCGNCAGANCCTACACACTTACCTGCGCTNCAAGATGAGCCAAGTAGCCCCACCCTGGCA CCCTAATTGGGGAANNCGGTAGGGCACNTNTNATNGNACATGCTGGANNCTNACCAACCTGNCAA TTATCNACATCCACAGTGCAAATCTTNGGGCTGAAAAAGCCCTGTTNA

SEQ ID NO: 2447 ACCAAAGCTCACTACTGCGGTTTGCCTGTGCCTGGACAATGAGGCGGAGCCA CTGTTGGGGCACCCCTTCCCTCCCCGGGTTTGCAAATAGAGGCTACCGGGTGTGTATTGAGCAA CACCTGTTTTACTATTTGTTATTAAGTATCATCTCCACCTTCCCTTTGATTAGCAATTTGTACACTG TGAACAGCTAAGTCGAGCTAATTAATATGCACTGCCACACATACTTGTCACTTTTTGGGGTGAGA CACTTAAATCTACTCTCTTAGTGTTTATTATTATTTTTTTGAGACGGAGTCTTGCTCTGCCGCCA GCTGGATGCATCGTGCAATCTCGGTTACTGCAACCTCCACCTCCAGGT

SEQ ID NO: 2448 ACTTTTACTTTTTTAAAAATTTCAAACCTTTTATAGTATTCTGCTAACATATCTCC TGTGAGGAACACTTAATACTGAATTTTCCCTCAATAGCCAAGTCAGAATATACTTATTTTCAATTTT CACCCAAGTCTTTGTTTCTAAACGCATTATGTAGAATAGATTTGATCCGTACAGCATCTTGAGTA GCTAATGAGGTAGGAGTATTCTTAAGTTCTTAGGCTTANTGAAGCAAAGCAAAGACAATCAAAAT TACAAAGATTTTCTTTTGNAGTGGGTTGNNTTTTNAANNAAAAANNNGCTAAAAANCACTGGNAANT TGANCAATGCTACTAACATTAAAAAN

SEQ ID NO: 2449 ACAGCATCGTAGGGTTCCCTAAACTTGCCCTGTTTTTGTGTTTTTTAGTTTGT ATCCCTTACTGAGCGGCTTACTAGGTGGCTGTGATTAAATGTCCCAAGCAAGGATAGGGAAG GGAATGGGTTGACCTCTGGAGATCATTGTAACCAATCCTGCCAGACCTGTTTGGGCAGTGGGGG AGCAAACCTAGATAAGGACCTGTTGGGGCACAGGGAGCAAAATCTCTTTAACAACCAANCAAGTT CCTATTCACATCAACAGANCGAGGCTGTGATAACTTAAGGAGGCACAATCCTAATAGTCCTTCAGT

GCATTTTAATCTGTCTCCAACTGGACACCAGTAGGTAAGTGTCAAGCCANANATTCGGGGGGCAGTA
AATAAATGNTCATTCTTACTGATGCACCTTAATTTTGGGCTTGTTACCTGTTTCNCAAAAANTTTTGNG
GCCTTTTAGGCNNGGAGTT

SEQ ID NO: 2450 AAATTTACAAAANAGGTTTATTGGACTTACAGTTCCACGTGGCTGGGAAGGC
CTCACAATCATGGCGGAAGGTGAAAGCCACATNTCACATGGCAGCAGATAANANAAAAAAGGT
AGTGATCTTTTAGTAAANAAACCTGANACTGGTAGTGGCTTGGAGCCANANGATCGCTTAAGTCC
GGGAGTTTCGAACCAGCCNNGGTACAAATTGAACCCCCCACTTTAAAATTAAAAAACGAAAGAAA
AAATTGCTGGGTGNGGNGGCTCACACCTGTAATCTTANCNTTGGGNAGGCCAAGGGGGGTGGNT
TGCNTGANCTCANNATTTAANACCACCTGGCAACATGGTTNAAACCCTTNTCTNTNTAAAAAA
AAAAANTNNCCAGGCNTGGTANCGTGCACCTTNTCCAATTACTTGGGAGGGTNNGGCNAAAAA
TNGTTGAACCTNGGAGGGAAGGTTGNAAAAATATTGCNNTTNNNTCCANCTGGGGNGANAAAN
AAAA

SEQ ID NO: 2451 TACGGNCTGAGACATCACCGCCAAGCTGGGCATCGGGGAGATGGCCNAGAC
TGACCCCAANACCGTGCAGGACCTCACCTCGGTGGTGCANACACTCCTGCAGCAGATGCAAGATA
AATTCAGACCATGTCTGACCAGATCATTGGGAGAATTNATGATATGAGTAGTCNCATTGATGATC
TGGAAAAGAATATCNCGGACCTCATGACACAGGCTGGGGTGGGAAGAACTNGAANGTGAACAA
GATACCTGCCACGCNNAANANTTNAAGGNTGCTAATAATTTTACTGGNAATCTGCNTTTTCC
AANCCNAANTAAAATCNAATGGNTTNTTCANCTAACTACTTATGTGNAAACNGGNTTATATTAT
TAAAAATT

SEQ ID NO: 2452 CCGGGCCATCATTTANTNATGGAATATATTCTGCGTTTATAAACTANTTTTT
AANAAGAAATTTTTTTTGGCCTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATAAT
AATGATTCTTAAATGCTGTATGGTTNATTATTTAAATGGGTAAAGCCATTTACATAATATANAAG
ATATGCATATNTCTANAAGGNATGTGGCNTTTATTTGGATAAAATTCTCAATTNAAANAAATCATC
TGATGTTTCTATANNCATTTGCCAGCTCAAAAAAANACANTACCCTATNTAGTNGNAGAAGTTT
ATGCTNATATTTGNGTAAACNNATATTAACCTAANTNTTCTNCCTACCNTGTTGGTATAAANATT
TTTTACCATAACTNTANACAANAAAAAAATCTGCCNTTCTTAGCAAATTTGCNTATATGTAATT
TGCTNAAAAATAAATTGTNTATTTTNTATNNCTTAGNCNNATTAANAACATTTNTTTNAATTAA
NTAANAATTTGGATTANTTNAAAACCTATTTTAGGNAATTATTTGCNTA

SEQ ID NO: 2453 ACTTTTTTTTTTTTTTTTTTTTTNNNGGAATGCGTTTATTTTAAACAACCAAAA
AATTCTAACAGCCTAACAAATGCACATAAGTTAAAAATTAATTATCACTTAGTGATAACAAAGATA
GTTGATTACATGGAAAAAAGAACATTTACAATATGTTAATCCTTATTCACATTGTTGATACCGCA
ATAAAACACAATTTGTTTTCATTTACAAAAAAGGGCGGAAATTTGTGCTTTGNN
ANNAGGCANTACAANAAAAAGTTTTTCTTCCAAATAGATTTTTTGACANATNTTGAATAANTAGA
CATNTTTGCATTGAAATNCGNAAAGATCTGGNAAACCACAGGCTAAAATGCCACAGATTCACT
TANAACCCTGNAACTNGGCANTGAAATTAATAAAGGCANGACTTANCNTTTGAAAAAAC
CTAATAANTTTTAGTTNAAAGGGAAANAAANCCNATNTGCNGATGCCTNTATATATNNANCCCT
TTNTNAAACCTTGGCNAAATCANNTTNTCTTANGT

SEQ ID NO: 2454 ACAGGATGAATTTAAATGNGTTTTCTGAGAGACAAGGAAGACTTGGGTAT
TTCCAAAAACAGGTAAAAATCTTAAATGNGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATG
TTCTGTAAANACAACAAATCCCTTTTTTCTCAATTGACTTAACTGCNTGATTTCTGTTTTATCTA
CCTCTAAAGCAAACTGTCAGTGTTCCAAAAACTTTGGTATGGATTAAACGCTGNCCATTAACAAAA
TGAANTCTCAAAACAGANCTCANCTGNAAAAACNTNTTCTTGNCTTCTGGACTGCACTGTTGT
CCTTNCCCTNANATAAACTCAAAACNGCCTCACAAACNCANGGNNTCTNTATTNGATTAAAT
NGGNTCTGAATTTCAAAAAANGCTTTTGAAAAAAGAGCNGGCTGGCCTAAAAACCTTAAT
ATTTTGATGAAGATTNGGGGGCTGCNTTCNAAAGCCCATNTTCTGTTGGGNCATTGGGTTTTT
GGGTATTTTACNCAATTTGGGTNCTNTCATTGNAATNGGGGGNGGGCCNTTCTNTATTGNAAC
NGGNGTTTGTINTNCTTAGAGCCTTNTTGCACCCCTTGNACCNGGAGGAAACNNTTCTTGCCCG
GGCG

SEQ ID NO: 2455 ACTGAGGACATGGCTGTGAGCTGGTTTCTTATCTGCTCTGAAGGCATGCTTTG
CAATGAGGACCAATCGGAGCATCTTCTCGAGTAGCATAATTCAAATCAGATCCCAAACTCAGG
GTCCGAGAAGTGTGATCAATACGAACCTGGCAAGTCGCATTNCTGCTTGCACTTACTATGGGCC
GTTCCAGTTTGGAAAAGCATCANCAAGGGACCAAGAAGTCAACNAAAAAATCATGCCTCTGA
TAATCTNTGANACCTGTGCAAAAAGCCGAGGATGGTTGTTGTTTTNCANTTGTGGCAANATACTG
GNTGCATTTCCGGTTCTTNTCAGGTTGTNCCTAACCCNANTTTAANAACCTTGTACTCGCTCACAN
AGTTTTAATGGGGNTTAAAT

SEQ ID NO: 2456 ACTCATTTGTATTCACTGTCACTTTTTCTCATGTTCTAATTATAAATGACCAAA
ATCAAGATTGCTCAAAAGGGTAAATGATAGCCACAGTATTGCTCCCTAAAATATGCATAAAGTAG
AAATTCAGTGCCTTCCCCTCCTGTCCATGACCTTGGGCACAGGGAAGTTCTGGGGTCATAAATATC
CCGTTTGGGAAGGAAAANCTGGNCTTAAACTGCACATGACTGGGACCNAANATGAGNGNCACCT
CAAAATGGGTGAAAATCTGGCATCATTTTTGGAAAGACCTGCTGAATGGTTCAAATAACTAATACTG
GTTAGGCCNAAGAAAAGTTGGAATCCGAATAATCTACTGGAGGTTTGNCCTTCATTTTCTCTTTC
TCCTCTGCCTGGCTGATATTATCTACTNTAAATAGCTATTTTCATCCAAGTGCAATAATGGAAGCTG
AATCTTTTGGGACTTCTGCTGGCCTGTTTATTTCTTTTATATAAAAANGGGATTCTNAAAAAATTGA
TNTAAACACTATCTTATCTTNTCCTGACTGTGATTTTAATTAATAAATTANGGCTANTNCCNAAAAA
AAAAAAAAAAAAAAGN

SEQ ID NO: 2457 ACGCTGGATAGCGTCCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAA
GGCCACGGAGCGAGACATCTCGGCCCCGAATGCTGTCAGCTTCAGGAATCCCCGCGTACCAACAGA
AAGCTGGCCAGGCCCCAAGTTCCTCATCTATGATGCCTTTATCAGGGCCTCTGGCATCCCGGACA
GGTTCAGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCATCATCAGACTGGAGCCTGAAGAC
TTTGCACTGTATTACTGTCAGCAGTATGCTACCTCACCGCTCACTTTCGGCGGGGGACCAAGGTG
GAGATCAAGAGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAA
TCTGGAACCTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCANAGAGGCCAAAGT

SEQ ID NO: 2458 ACAGCTAAGCGAACTTTAAGTAAAAAGGAACAGGAAGAATTAAGAAAAAAG
GAGGATGAAAAGGCAGCTGCTGAGATTTATGAGGAGTTTCTTGCTGCTTTTGAAGGAAGTGATGG
TAATAAAGTGAAAACATTTGTGCGAGGGGGTGTGTTAATGCAGCTAAAGAAGAACATGAAACAG
ATGAAAAAAGAGGTAATAATCTATAAGCCATCTTCAAGATTTGCAGATCAAAAAATCCTCCAAAT
CAGTCTTCCAATGAAAGACCACCATCTCTTCTGTGATNGAAAAANANAAACANNNAAAAA
ANGGTC

SEQ ID NO: 2459 ACGCGGGGGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGGT
GGGTGAGGAAATCCAGAGTTGCCATGGAGAAAATTCAGTGTGAGCATTCTTGCTCCTTGTGGCCC
TCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCT
CGACCCAACTGCCCCAGACCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACATA
TGAAGAAGCTCTATATAAATCCAAGACAAGCAACAACCCCTTGATGATTATTCATCACTTGGATG
AGTGCCCAACACAGTCAAGCTTTAAAGAAAGTGTGTTGCTGAAAATAAAGAAATCCAGAAATTGGCA
GAGCAGTTTGTCTCCTCAATCTGGTTTATGAAACAACCTGACAAACACCTTTCTCCTGATGGCCAT
TATGTCCCAGGATTATGTTTGTGACCCATCTCTGACAGTTAGAGCCGATTTCAGTGGAAAGATAT
TCAAACCGTCTCTATGCTTACGAACCTGCAAATCAGCTNTGNTGCTTGACAACATGAANAAAGCTC
TNAGTTGNNTGAAACTGNATTGTAAAGAAAAAATNTCCAACCCCTTNTNTNTGGCANGGCNT
TGAANTTTGAA

SEQ ID NO: 2460 ACCTTATGGATTGACCCACCTCATTCTGGACAAAGCCTCAGGAGGATCTCTT
CAGGGACATGATGCAGTTTTGAGACTGGTAGAGATTGCAACGGTTTTGGAAAAGCTTCGTCCCTTG
GACCAAAAGCTGAAGTATCAAATTGACAAAGCTGATCAAGACTGCAGTGACAGGCAGCCTTAGTGA
GAATGACCCACTTCGTTTAAAGCCTCATCCCANCAATATGATGAGCAAGTTGAGCTCTGAGGATGA
GGAGGAAGATGAAGCANANANATGACCANTCTGAGGCTTCAAGGGAANA

SEQ ID NO: 2461 ACCATCCTGTGGCTCCTTAAGGAGGCTTCTCTCTTTAATTCTCCATGAGGCAT
CCAGGGTGATCTGGGCTATGGGAAGAACCCTTCAACTTGGGAGTAGACAGGTGCTCCAATTCATA
GTGCCCATTTCTAGAGGCCTTGTGTGTGAGTTTCTCCTTCATGCCTTCCTTCTGGCTCTTCTTGTGCT
CCATAATCTGCTGGAGCTGGTGCCAGCATAGTCTGGCTTGGTGGTCAGCGGGCCAGCCGGCACA
GCTACACCAAGGACATCTGACACCATGTAGGGGCGCAGCCAGCCACCAAGGGAGTGCTTCCGGG
GCTGTAGTGGGTCTGTTTGTGGTAGAAGANAAGTCCATCTACCTCAAAAGGGGAAATCCATAGATA
GCACATCACACAGGCTTTCGGGAGTGCAAGGGAAGTTCTTTANCCCCACAAATTTAAAGGATTA
AGCTTGGTTTTCTCTCCAGTCCTTCTTCTTCTGGTAACTTTGAATGCATCCAGTANAATCGGAAAT
CAGTCTGGCAATCATAAAAAGGGTGTCCCCGCCAGCACATCACATCCANAACGTANTAGGTCTNG
GTTTACCTNATTNGTAAATGCAATCTANAATGGGG

SEQ ID NO: 2462 ACAACCCATAATTTCTGGTCCATCAAAAGAAAAGGGATCAGAATCATCTGGT
TCTGACCTCATCCTGTATGTCTTTGTGACGACTTCATTTGTAAAATATTCATTGGGTTCAAAGTGAA
ATTCTAAGACAAAATCATAGGCTGGCCAGCATCTGAGAACTTCACTTTAATATCTTTCAAGTGCT
TCAGAATAGGTTTCATCGTGTTCCTGAACCATATCACTGAGCAAGTCAACATTCTTAAAAACAGTTA
ACCAAAATTCAGGAATTCCTTTGGGGTCTTCTTTTCTTCATCTTTTTTCTCATCTTCAATCTTGGCC
TTTTCTTTCAATTCCTCCGAAATCTCATCTTCTTCATCTGGTTTCCATTCACATTCTTCTTCCGTAGG
TTCATAAATTGCATTATAAATTTCAAATCGCTTATCAAATAGAGGCTGATAAGAGAACAGCATACT

TCCTTTCAAGATCGTGAAGTTCCCTCATAGAATTTGGCTTCTATCTGTGCACATTTAACTTGCAGGTT
TTTGAGACNATTCACCTCGTCTTTTAACTACCCTAGGCAGGCTTTCAATGGTATCCTGGTNGGTGGTT
CTACCCAAACCATCAANTTCTTTCTTGGAAGGGGCTGCAAAAAATCTGANGATTTTGCATCATCTG

SEQ ID NO: 2463 ACGTTCAATCCGGGGAATGATGACATGTTCAATGGCATTTACACGCCTGTTGG
TTATCTTAATAGCTTCATCCAAAGTAACAAAAGAAGTCTGCAGAGAAGCTAGTTCCACCAGTAGTT
CCACTGCTTTGGCATAATTCTCTTTAATTTAGCCAACTGTTCCCCACCTCTGGCTAAACCAGTCAG
TTCATAACTGTCAGTTCCCTTCATGGTAATGTTCAAATACTGGCAAAGTAACACCTGCTACATTATCT
TTCTTCGCTCGAATCTTCACCTTGCCTTTATTGACATTTTGGATAACTGTAGTGCTGAAGTCACCTG
CTGTGAACCTTGGCTTCAGTTAGTGAAAAGGCAGCTTCTCTCATCACTTCGCCCATCAACATTTTAGT
CTCTATTATCTTCTTTAGGATCTGTGAAATCGAAGAGTTAAGGCATCANATTTTTTCTTCAGGAGG
TTTCGACCTGTCTGTGCTCCCTTTAAACGAGCCTTCATGATGGTCTGTGCCATTCCCGAGGGGAAAG
ATTTCAATTCGGCTTTGCCCCGACATNTGACNATAACTTTTTTCGGTTCGGGTNCCCGGCCGGGCAA
CCGAGGCTGCAANTA

SEQ ID NO: 2464 ACTACTGCTGTTTTCTGAAGACGCGAGGGCAAGTGCAGCCAGCCGTTTCTTTT
CCTTCTTAAGCGTTTCTTCTCCTGTTTCTCCAGCTTCCTAGTAATCTCAGCAGCCGCTTCTCTGCC
TGAACCATTGCTTCCTTCATGACATCCAGATTCTTTCGTGGTATCTCTCCAGTCTCATAGAAGGACA
GTCNCTCTTCAACTTGTTCTCGAAGCTTCTCCCCGAATACACTCNTGGGCACCTCANAGAAACAAT
CNATTCGTGAGGCAATACTGCATTTNGTTTGCCANTNTATCNGGANATGCGGNCTTTGTTATTGCA
NCT

SEQ ID NO: 2465 ACGCGGGGGAACACCACCCAGTGTGGAGCATCCACCCCTGCTCACTGAGGCA
CCCCCTGAACCCCAAGGCCAACCAGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCC
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGT
GCTGGACTCTGGAGATGGTGTCAACCCACAATGTCCCCATCTATGAGGGCTATGCCTTGCCCCATGC
CATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCG
TGGCTATTCCCTTCGTTACTACTGCTGAGCGTGAGATTGTCGGGACATCAAGGAGAAACTGTGTTA
TGTAAGCTCTGGACTTTGAAAATGAGATGGCCACTGCCGCATCCTCATCCTCCCTTGAGAAGAGTTA
CGAGTTGCCTGATGGGCAAGTGATCACCATCGGAAATGAACGTTTCCGCTGCCCANAAACCCTGTT
CCANCCATCCTTCATCGGGATGGAGTCTGCTGGCATNCATGAAACCACCTACAACAGCATTATGA
AAGTGTGATATTGACATCAGGAAGGACCTTTTTCTAACAATGTCTATCAGGGGGC

SEQ ID NO: 2466 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTNCATTTGAACATTTAATAAAAAT
GTTTAGGTTGATATCTTAAAGTTGTCAGTGAAATCTCANATTTACATAACAGTTTGCATCCAGTAG
TTTTTTTGAGTAACACAAACATCAGTATAGCCAAATGTTAACTCTTATCACTTTTTGTGTTAATAAC
AAAGTAATATTTGTAATATAGNGTCCCTGAATAAATAAATAAATAAATAAATAAATAAATAAATAA
AAATAAAACACTATTTAATAAATGGTATCATAGCCCTTCAAAANACACATTCTGAAATGCTATCAG
TCAGGGGGCAAAGTTGTTTTAGTTTCAAGTTTATTTTTTAATATGTCCTGAGTNCCTTTCTGTTTATAA
AATTATNATCTTATGACAGCNGTAACCTTTAATTAATAATATTAACAAATCATTATNGATATAGGC
TTTTCAATTTGCTCAANATTAGGAATTTGNAAAGNNGGGAATGAANCAGCCCTTCNATTTGANAA
ATTGGATCCAAAAGGTAATCNAANTGGCTTTTTAAATTTAAGCNTGGGGGANAATTAANCCC

SEQ ID NO: 2467 ACTTGTTAGGGAAAAAAGTTTGCACCCCCAAACGTCCTGTATCTTATG
AAAAAACAACAAACCAAAAAACCCCAAAAAACCCCGGAACCAAAACCAAAAAAAGTGCA
GGTGATTTTTCTACCAAACAGCGAANACCCCTTTGNTTCCCNTGCAACTTCAAAAAGGTTTCCTA
TNCTATNCNTNTATNTNCGTTCTGGTTGGCAANCCCTGNTGATCAAAAAAAGTCTCTGCATGTTCT
AGTGTTAGTAACATAATTTTTATATAAGTTAATGTAGGATAAAGTAGAGTGCATTAAGACACAATAT
TGTAATCCCTACTTTTAGGCCTTGCTTTTAACTATTGTTTTAGCCCTTCAGAAGGGTCTACTCTG
CCTATACAATCAAGTACTGAAATTCNTGGGAAAAAAGTTTGGCTCCTCATCTTTCTCCCCAAACAA
AGGGGGTTTGGGTTTGGTTTTTTTTCTTAATTNGCACCAAAAAACAAAAAATCCATATCAATGTN
CCCTTGCCCTGGANTANCGAATTTTTGTGGGAATTNTTNCACATGCNCCTTTNTTTGAAANGGGT
TTTTCCCTAATCAANCATTTGGAGACACTTTTTGNAAATNGGGACTTTTATGTACCCATTCCGNC
NGTTCAACAT

SEQ ID NO: 2468 ACTACAGACCTCCACATGTTGGACAGTAGGATTTCAGCAGAGAATGAGTCCCA
CATCCTCTTTTCATCCATAAGCCACTCTTCCCAACTACTCTTCCGCCTTCCATTGTCCCTATGTCTAC
TTTACTGCTCAATCTGGATTTTGGGGAACCTCCTCCCAAAAAGGCATTAGAAGGAAATGCCAAGC
ACCGAAATTTGTCAAGAAGCGGAGGCTCTTAGAAGCGGAGAGGCTTTCTGAGTAAAAAGAACCAA
CCCCCTAGCAAGGCGCCTAAGTTGCACCTGAACTTCAAAGAAAGGGGAAACTCTACGGTCTGA
TGGCACTTGGAAGACCCCTTCCCTCCCAAAAAGAAGACAGCTGCTTCCAGCAATGGGTGAGGAC
AGCCCTGGACAAGAAAGCTGCAGTGTCTTGGTTGACCCCTGCCCTTCAAAAAGGCTGATTCTG

TTGCTGCTAAAGTAGATTTGCTGGGGGAGTTCCAGAGTGCCCTTCCAAAGATCAATAGCCACCCAA
 CCCGTTCTCAAAAANAAGAGCTCCCAAAAANAATCCTCTAAAAAAGAACCATCCTTANAAGAATGCC
 CACANNAACTCCACCCAAGCTCATTGAGAANAATAAATGCCTCCGGAANCTTCCAAAANNTTGCC
 ACNGGAANAAGGN

SEQ ID NO: 2469 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAAAAACTTTTAACAATTTATTAGTC
 TTATTTTCCAGTAAAAATATTCAAATAATGTCAAAAANAATGAAATGATAGCGATNTAGCCAACTACC
 TTTAATTAATTTCCACATAAATATTTAAAAATNTAAAAACCTNANATCAGCAGACCGANTCGAAATCT
 GATTCCTTCAAAGCAAGTATTGCTTTACCCTTGTCTGAATGCAGNCCGTCATATNACCACTAATT
 GCATGTNACCAAATGTTTGNATAGTGTTTTTAAATTTGCTINTCGGGNANCCGNNATCCNTCAANC
 CAAGAAAAANAT

SEQ ID NO: 2470 ACTTTTTTTTTTTTTTTTTTTTTTTCCNAAAGTGTTTATTGCAATTTACATGGATT
 CCTCTACTTTGTGAGGTTTAGTATAAATGAAATGTATTGCAATTTTCAGGAACATTACCTACAAATT
 GATATTAGGTGGTCTACAGCTTGTAATTGATGTGCTTCATGATAAANATGGCAGTAATGATGTTTT
 AAATATTCTAGNGCTCACTGGATTTTCATTTTTGCAGGCAATTTGCANCTCCTCTGAGTAAAAACATTT
 ATATTCAATTACAGAGTCTGATAAATAGGATTTCCCGCCACCCACCCCTTCTAATCACTGCANAGT
 ATTAATAGNGCTTTCTTATGGCTGATTTCTTGACGGGAGCAAANATAANATTATAGCCAANTTTNT
 TTCAAACCTCAGCAGCATCTCCTTCTGGTAGCTATTNAAATATTTTCTTCCACCTCTTTGACTTCA
 AATGACACNACCTTGCCATCCACTACTTCTTGACGACTGTCTTAATCTTCTGGTTTTCTTTATAT
 CTCCTCTCCAGGGGGCTTAACCTGATATTCTGTAGTTTTTNCGTCTTCTCCTTCCANAANGCGNG
 GTAAGTANCAATTTCTGTTCAGTCNAGTCTTTATGTNAANAAAGATTGGTATTTCGTTNTTCTG

SEQ ID NO: 2471 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGATAAAATACTATGCTTTAATGAN
 CCCCTTAAATANAAATTCCACTACAAAAATACANAGGAGATAGGGTGTTTCTGTATCCGCCTCAT
 TCCCATANAAAACCTATAAGGGAANAATANAACCTTGAATTAANACAGCAGCAAGGCGAGGTGA
 NAATGCNATTTCTAGGCCATCTTGTGGGACTGATGAACAGCATCTNTGATCTCATGATTTAACAT
 CTGGTTATCCAAAAGGGATGGGATTGGCCTAAAAAAACCGATCAATTTCTNGGATTGGTTTTGTTTC
 TTAATCCTTCAAATGACAAGAAGCAAAAATNTTGTANAACTAAGCAAGACAANAGTTGGAGCA
 GTTAACACCACTNTCTGCAGCNAGAACTCAGACCTTNTTAGTGAACCTTAANGGCTGAAGTGTA
 AAGCTGANGCTGCAAGTGCANATCAAAAAAANGATTTTACAGACCCTCNTCTACCCCAAAT
 CCCCCGNNTACCTGCCCGGGNGGGNCGTTCNAAAGGGC

SEQ ID NO: 2472 ACTTTTTTTTTTTTTTTTTTTTTTCTGGGACTCTGGAGATGCCGAAGCACACGCCTT
 CAAGAGTCCAGCAAAGAAAATAAAAAGAAAGACAAAGATNTGCTTGAAGATAAGTTTAAAAGC
 AATAATTTANAGAGAGAGCAGGAGCAGCTTGACCGCATCGTGAAGGAATCTGGAGGAAAGCTGA
 CCAGGCGGCTTGTGAACAGTCAGTGCGAATTTGAAAGAAGAAAACAGATGGAACAACGACGTT
 GGGACTTCTCCATCCTGTGGATCCCATTTGTAGGAGAGCCAGGCTACTGCCCTGTGAGACTGGGAAT
 GACAACTGGAAGACTTCAGTCTGGAGTGAATACTTTGCAGGGGTTCAAAGAGGATAAAAGGAACA
 AAGTCACTCCAGTGTTATATTTGAATTATGGGCCCTACAGTTCTTATGCACCGCATTATGACTCCAC
 ATTTGCAAATATCAGCAAGGATGATTCTGATTTAATCTATTCAACCTATGGGGAAGACTCTGATCT
 TCCAAGTNGATTTGAGCATCCATGAGTTTTTGGCCACGTGCCAAGATTATCCCGTATGTATGGGC
 AGATAGNTTACTGGATGTTTTAACAAAAGGGGGGCGNTTCCAGGACCCTACAAAGANATGGGAGA
 TGTCTNTTCTGAA

SEQ ID NO: 2473 ACTGAAGAACATTTCCCATGGATATCGGTAACTTGCCCTCCACAGCATGTAA
 AATAACTTCTGGAGCACAAGTATCCCACTTCTTACAACAGGACTTGCAAATACATAAGCAGAGG
 CTTTGCTTCAATCAGCTGAATAATCTTATTTCTGCTCCTCTACTCGCAGCACAGCATCGGGGTT
 CATAGCAGCAACACAGTCAGTAACCAACTTGTTGCTATGGGATCGAGTAGTTGTGATAATGTGTTT
 CCCAGCAGGGACTTCTTTAGCTGAAACCCAAAGGCGCCTAAACCTAAAACCTCCCAAGATTGTCTT
 CCCCCAACACAGCATCTGGTCTGCTCATAGTTGTAATATGGCTGGTTAATAACTCCTGCTATGGC
 TTTTCTTTCATAAGCAATTCCAATAAGAACTGTTACATTGTCAAGAAGACCTTCGGTATATTCCTTG
 GTTCCATCCAGAGGATCAACCCAGACCAGAGATCTTCTTCTTAATAGCACTGT

SEQ ID NO: 2474 ACGCGGGCAACATGACTGTCTTTAAACTCCAGTGGCTGGCCAGGCACGGTA
 GCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGAGGTGGATCACCTGAGGTCAGAAATT
 CAAGACCANCTGGCCAACATGGGGAAACCTGTCTTACTAAAAATATAAAAAATTAGCTGGGTG
 TGGTGGCNG

SEQ ID NO: 2475 ACTTTTTTTTTTTTTTTTTTTTTTTNGGTTTTTTTTTTTCCACACCTGCCCTTTATT
 GGTCTCTTCTAGCANAGTGGCTCCAGGCCCTTACGCCTNTCANACACCACCCATGAGGGTTTAGG
 AAGTGCCATCATTTCTGTGAAGGCCCAAAGCTTACCCAAGTCTTGAGGCCAAAGTTGAATCACCA

ACCANAGGGTTGGGANAGGAAAAGGAAACAGGCAGAGGGGAAAGGCAAGGCTCTGCAGTGAAG
GGGACTGATATCAAGGGAATGCTGAGGTCCAGCAGTGTCTCCTGAAGGCATGCTGCATCCTAAGG
CTCCTCAGGACTGGATGGAGTAGGAGATCTGGGTGTTGACCANTTCACATNTATATGGCAACTTTA
AGGAGGCGCTTGATGTCAGGCTCAATGTTGATGGTTGGGAANGTGCAA

SEQ ID NO: 2476 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTTCAAAAGGGTGTTTACTATTTGG
CCAAACAATATTTTTTAATTGTCAGTCATAAAGTGAAATACATACTAAAAATATATATTAATATTC
ACCAAATCTGCATTGCTGCTACATGAAAACATTTTTTGGTCTGTTGGAAAATGTAATTCCTGANAT
CATTGTTGGGCTTTGTCAATCATTTTCTCACCATCAAATCACCTAAGTGACTTGGGAGTGTGAAT
CTAGGATGTTCAATTTTANACCAATTTTCTCTATCTTCTAAATGAGTAAACAGGCTCTGTCTTTTAT
AAAAGGTANAAAAATAACCATGGTGTGCTAATTTTTTCAAGGTATACCATATGGAAAAGTNTAG
GCTGAACACAAAGGAAGTCTTTTCTGAATGGCTCTCGATCACACATAAGGAACATATGTTTTCCAG
TTAATCTGCCTTGATGT

SEQ ID NO: 2477 ACCGGACCCTGCAGCCGCAGAGATGTTGATGCCTAAGAAGAACCGGATTGCC
ATTTATGAACTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCA
CCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCTGATGAAGGCCATGCAGTCTCTCAAGT
CCCAAGGCTACGTGAAGGAACAGTTCGCCTGNAGACATTTNTACTGGTACTATTTTTTTTTNTTTA

SEQ ID NO: 2478 ACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATA
CTGCCGTCTTGCCAGTTTATTGGAACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGG
AGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTATTCTGGATGCCTCACGGTCTCCATGGGC
ATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCAGTCGTGTGGTGTCTTTATCT
GAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCCCCAGCCTGTC
AGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTCAAAACCTGAAN
ACAAGGGGTAACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCANCTGCC
AAGAACAAAGGCCGATNTCCCGATCCTNCAAACAAATGCATTNTTGCCTNACGAATTCGATTGC
TTTCTCTGAGGTGCCCCACGAATGTNTTCNGGGGANAAGCTTCNAAAACAAGTTGAAGAGCGACTG
TCCTTTNTATGAA

SEQ ID NO: 2479 ACAGGAGATCTCATTTGGGACAATAAGGATAAAATGCTGGTCATCGAGCAG
TGTAAGAACTCCAGAGCTGTAACCATTTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGC
GAAACGATCCCTTCACGATGCTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTA
TGGAGGAGGGGCTGCTGAGATATCCTGTGCCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCA
CCTTAGAACAGTATGCCATGAGAGCGTTTGGCGACGCACTGGAGGTCATCCCCATGGCCCTCTCTG
AAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCAGACAGGTGAAGGAGAT
GAACCTTGCTCTTGGCATCGACTGTTGCACAAGGGGACAAATGATATGAAGCAACAGCATGTCA
TANAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGAACACAAAATGGTTAGAATGATTTTG
AAGATTGATGACATTTCGTAAGCCTGGAGAATCTGAAGAATGAAACATTGAGAAACTATGTAGCAA
GATCCACTTCTGTGATTAAGTAAATGGATGTCTCGTGATGCGTCTACAGTTATTTATTGTACATCCT
TTTCCAGACCCT

SEQ ID NO: 2480 ACCATAGGATTTTGGAAGATGGTATCATCAATTCTTCTAGTTAGTGATGGTGT
TTTCTCAGTAGTTCTTACCAGACACTCCTCAAGTGAATGAGTTAAATGAATATTGTTTATATATTCT
TGTCCCTTCTGNTCTAACNCATATTTGCACCCTGGATACCATTTANCATGTTGTTCCCAAGGGTCTT
CACTGGGCTTNCAATCANATANCCCTCCTNCTCACTGAANGCNCCTACTATANCTCCTNCACCTA
AATTCNTTAATNTCCACGCTNTTGGCAANCTGCTTCNATTGATATCATC

SEQ ID NO: 2481 ACGCGGGGTCTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTC
CGAGGAGATACCAGTCGGTAGAGGAGAAGTCGAGGTTAGAGGGAAGTGGGAGGCACCTTTGCTGT
CTGCAATCGAGGTTGAGGGTGCAAAAATGCAGAGTAATAAACTTTTAACTTGGAGAAGCAAAAC
CATACTCCAAGAAAGCATCATCAACATCACACCAGCAGCAGCACCACCAGCAGCAACAGCAGC
AGCCGCCACCACCGCCAATACCTGCAAAATGGGCAACAGGCCAGCAGCCAAAATGAAGGCTTGACT
ATTGACCTGAAGAATTTTAGAAAACAGGAGAGAAGACCTTCACCCAACGAAGCCGTCTTTTTGT
GGGAAATCTTCTCCGACATCACTGAGGAAGAAATGAGGAAACTATTTGAGAAATATGGAAAGG
CAGGCGAAGTCTTCATTCTATAAGGATAAAGGATTTGGGCTTTATCCGTTTGGAAACCCGACCCTAN
CGGAGATTGCCAAAGTGGAGCTGGACATATGCCACTCCGTGGAAAAGCANCTGCGGTGTGCCCTT
TTNCTGCCATAGTGCATCCCTTANAGTTCNGAAACCTTCCTTNAGTATGTGTCCANCNAACTGNN
TGAAAAAAACCCCTTTT

SEQ ID NO: 2482 ACGCGGGGTTCTCCCCAGATGACAAATACTCTCGACACCCGAATCACCATCAA
GAAACGCTTCAAGGTGCTCATGACCCAGCAACCGCGCCCTGTCTCTGAGGGTCCCTTAAACTGAT
GTCTTTTCTGCCACCTGTTACCCCTCGGAGACTCCGTAACCAAACTCTTCGGACTGTGAGCCCTGA
TGCCTTTTGGCCAGCCATACTCTTTGGCATCCAGTCTCTCGTGGCGATTGATTATGCTTGTGTGAAG
CAATCATGGTGGCATCACCCATAAANGGAACACATTNNACTTTNTTTCTCATATTTTAAATNACT
ACAAGATTATTANAGAT

SEQ ID NO: 2483 ACTTTTTTTTTTTTTTTTTTTTTTTNGGAATCCTAACTCTATTAATAGTGTTGATACA
TTTCTTCTAAATTTGCTGCCTTGCCTCAGTANATCTTTACTCTGGGATCCAGGTGACTGTCTGGGTA
ATTTAGGTGATGACTCTTCCAACAAACAATCTGTAATCCCCACATTATTANAATTGGGTAATACAT
GTTTTTTGGCTTTTTTGGAACTCTCCTGAATTGTANATAATAACCCCTACATTTCCAAACACTCCCAATT
TTGCTCCCATGACCGTAATGAGGAGCAGGCTAAATGTGTGCCACTGGAACCACAACACTGACAGC
GCCTTATTTCCCATTTGCTATCAGGTGCATTATAGTCTCGCCCTTCTTTGCAACGACATNTTCGAAC
ATCANAACGCTCATAGTGCTGCAAAAAGCTCTTGATAAGCGTTTTCTCTNATTCCCAGGAAGCATC
TTTTTCAGGAATTGAATTCCCATTTCTCAACATCTCTTTCTNAAAGATGTCACTNTTATTGCATATTG
TACCTCGG

SEQ ID NO: 2484 ACTTTTTTTTTTTTTTTTTTTTTTTNGCCAAAGACAAACTANAGCAATGCCTATGTAA
GAACAAGGACTCTCAAGATCCTGCTACACAGTATTCACAATCAAAAGGGCCCAAGATTCAGGACC
ACCTAAAGACAACTGACAAAAAGTGTANAGCCAGAGGCCAACCTNTGCTANATGAAGCAGCAG
CACATGACTCCATTTCTATCTGATAAGGAGACAGAGAAGAGGCATCTCGAACAGATGAAAAACCA
AAGGCTGGTGTCTTAAAAAAGCAGATTGGCTTCAAAGAAAACACTAAGGAAGACCCAGAGC
TGTATTAATTTAGTAAAAATAATCATATGCCAACAGGGGAATTGAACCACTTTCTAAATCATAGT
ATGAACTCATCTCTCANATCTTGGTAAGTGGTCAAAGCTNGTTTTTATAATTACTTTCACTGTCTT
GGGCAAAAAGTCTTTCTTATCTTTGGTCCTTANGTGTGGTATCAGTTTCTTCCATTTTTTATGGGTT
CAAAAAAATCTTTTTTTACTTTGACATCACAACCAAGGNGCAGTNTAAACACNAAGTTGCTGGATT
TGNTGGTTTTTATACANATAAAATAACCACATTNTCCCATACATTTTTTATAGGCTNTCCNAANGNT
NTAAAA

SEQ ID NO: 2485 ACCAACCTGGCTACTGGAATCCCCAGTAGTAAAGTGAAATATTCAAGGCTCT
CCAGCACAGACGATGGCTACATTGACCTTCAGTTAAGAAAACCCCTCCAAAGATCCCTTATAAG
GCCATCGCGCTTGCCACTGTGCTGTTTTTGATTGGCGCCTTTCTCATTATTATAGGCTCCCTCCTGC
TGTCAGGCTACATCAGCAAAGGGGGGGCAGACCGGGCCGTTCCAGTGCTGATCATTGGCATTCTG
GTGTTCTACCCGGATTTTNCACANTGCGCNTNNTACTATGCATCCAAAGGCTTCCCNNGT

SEQ ID NO: 2486 GGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAANAAAATGAAGACACT
GAAATACAGACTTAAATAGCTCAGATAGCTAATTAGGAAATTCAAGTTGGCCAATAATAGCATT
CTCTCTGACATTTAAAAATAATTTCTATTCAAAATACATGCATAATTGATTTTACACCTCATTACTG
GTGGATAATTTATGTGATGTGGATTGCTGGTGTCCAGCATGACCCATAAACAGGTCAGAAGAATG
ATGGAATGTTTTAGAATAAACTCCTGCTTATAGTATACTACACAGTTCAAAGATGTTTAAATGC
TTTTGTATTTACTGCCATGTAATTGAAATATATAGATTATTGNAACCTTTCAACCTGAAAATCAAG
CAGTATGAGAGTTTAGTTATTTGNATGNGGCACTAGTGGCTAATGAAGCTTTTAAATCTACCATT
TCTTCTTTAAAAATATTATTAATGNGNATGGGATATNACAATTCACTTAATTTCCCCACCTTATNT
GGGNGGNACCATGGTTTCCCAATTTGAANGGNGGGGGTTAACCTTTAAT

SEQ ID NO: 2487 ACTTTTTTTTTTTTTTTTTTTTTTTTGGAGCTGAGACCAGGAGAAATAACTTTATT
TGAATAGGACCCAAGACAGCATATTGGGCTAAGGAGGAGAGGTAAGGTTCCAAAACCGCAGTCA
AAGCTCATCAACCAATGGACTCTACTTCCCAGCAACCTTGCAGTTAGTGCAACCAACAAAAGGC
CTGCTGGGGAATGTATTTGCCACTAAATTCCCCAAGTATGCCAACATTACAAAAAGATAGGTTTT
TCATCATAATTGAATTTCCACAAACCTCCCCAATCACAAGTATTATAAGTGGAAGTAAAAAATCAC
ATTTTACAGATCTCAAACCTTGTCTTCAACATTTAGTTTCATCATCTTCAAAAAATAGTCTCCCTGCCT
AATTCATTANCTATATGATCTAACCAAGCAGCAACAAAGATGGCCAGGCCATGGCAATCCTNTTC
CATTTCCCTACCCTNAGGGCTTAACAACANGGTGAGGCTTAAGTNGANGTANGGGGGTGGGGGG
CAAAAGGGTTANTTTNCCCCATNCCTTGGGCGGNACCCCCCTAAGGGGAATT

SEQ ID NO: 2488 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNTCCANNGATCCTTTACTGAGA
TCCACTTGAAACACTTCGGTCTTAACTTGTTAACTGAGTTGACAGGCTGATGGCTGATCTAGGTA
AAGGTTTCACGGTAGCAAAAACACTTCCTGCCTATAATACATCAAAAACAGGTTCTGAATGTGTGT
GAATATCATCAAGGNCTCTGTCCCATCTTNTTCAGGGTTCGATTAAGCTCCTCAAATTTGTGGATCT
GACGGATGAAGAAATCCCCATAACGCCTGGCGACCTTGGTGTCGCGATGTGGATCATGTCTTAT
CAATGTAGAAGTCAACCTCTGAGGCTGACTGAAATTCACCATCCAGGGCTGAAAAACCCGCTGGC
CCCAGGAGGGTCTTTATCTTGTGTGTGAAGACAAANAAGCTGGATCCCGAAGTTCTGCTCTGTGAN

GGCTAAGAAGCCACCCNCTTNGNCCCAGGCATNGGNGGGNTTAAACTTTNAGAAACCTCGGTNGN
TTAAAACTTGGCCTTNTGNTTNCCTTCCCGGNGGCCTTCNAAGGG

SEQ ID NO: 2489 ACAGGCCCTTTGATGGCTTGGGTACAGACAACCTCATAGCTGGTGCACCAC
ACACACGAGATAAAACAGGAAGCCTAAAAACCCCAAGCCACACCAAGAAAAATGAGAGAGGGG
AGGGCGGGGTAAACAATGCAGCATCCCGCGGAGGGAACTTAATGCACAAGGAGGGGAGAACAGAGG
GTGGAAGGCAAGCCAGCTTCGTCTTCGCCGCCGAGCTGCTGTGTGGTGGTCAGGGGACTGAGTT
CCCCGCGTACGCGGGCAAGTTTAGAACCCCTAGTGTTTTTCAGGGGGTAACTAAATTTAAAAAGCCT
TAAATGGGCTGGGTGTGGTGGCTTACACCTGTAATTCCANCACTTTTGGGAGGGCCAAGGTGGG
CCTGATCACCAAANTCATGAAGTTCAAGAACACCTNGCCAACATANTGAAACCCCTTTTTNTTTCTT
AAAAATNCANAATAAAAAAAATNTCCCGTGTGTGTGGCNGGNNNCTTTANTTCCCNCTTTTTTNG
NAGGCCNNNGCTGGAAATTTATTTTAANCCNGAAGTGGNGNTTTNTTTNNNTTAAATTTNTNCTT
N

SEQ ID NO: 2490 GGTACCTCTTGGAAAACCTCAATGCAAGATAGGGTTTCAGTGCTGGCATATTT
TGGAATTCTGCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCACTCCCAACAAAGTCAC
CCAGTTAATGT
TATTTGAAAAAGTAGAATTGAGTTACAATTTGATTTTTTTTCCAAAGATGTCTGTAAATCTGTGT
GCTTTTATATGAATATTTGTTTTTATAGTTTAAATTTGATCCTTTGGGAATCCAAGTTGAAGTTCC
CAATACTTTATAAGAAGTTATCAGACATCTCTAATTTGGCCATGTCTAGTTTATACAGTTTCAAA
ATATAGCANATGCNAGATTATGGGGGAAATCTTATTCANAAAGACCTTGCCCGCGGNCGNTCN
AANGGCCNANTTCANCCCNCTGGNGGCCGTTCTAANGGGANCCGAGCNCNGGNACCAACCTGG
NNNAANANTGGCANNANTGNNNCTTNGGGGAAATNGGNATCCCC

SEQ ID NO: 2491 GGTACAACTGATTTTTTAATGGAAATATATTANNATGACCTGTATAAATTATG
AGATTCAAAACAGTGGCGCCACTATACTGCTAAACCTATGCATGAAGGTAGTGACTAGGATGGAA
ATCTGTCAGTGCTACAAAAATATGTATGAACAAAATAATTTTACCCTTTGATAAAGCTACAAGAT
ATAAAATTTAGAATACTTATATAATTTTATACACTAGATATGTGAAAAATATGCCATGCTAGAACCAT
CTTGTTCCAAAGTTTGAACATATCTGTCAAAAATACTCTTCGTACTTGATGAACCTGTTTCAAGT
TTCTCGTCCCTCGTGAAGGGTTACCCCAAGCAGTCTGGCTATCAGTGAGGGGACCTCCATNT
ATGTTGGGTTATGTAGGTGGATGGATGAACTAGGTGGGCCTATGTTCCCATCTTTTTTCTCTCTT
TAAGNAGAAGACANGATTTNCCANGGGAGNNGGGGGCTACANAGTNCCNCNTTCTTTTNGTGCTG
GGNNANNACTTTTNGCCAANTTGGCCNAATCTCTTNGGTTAACCTT

SEQ ID NO: 2492 GGGACTTTTTTTTTTTTTTTTTTTTTTTTTNTACNGATACAATTGGCTTTTATTTGC
GATTCATGAGTCAGGGCAGTTTCCATTCTGCAAAATATAGNGATAGCTCCTACTGGGCAATACAAC
AGTANAACAGNNGGTTTTGTAAATGGGAATCCAGGAACAGAANAATATAAATAAATTGATTTAA
ATAAACTGATTGGNTAATTCANAATACTTCATATTACTTTTTTCTAAGAGTTAAAGCANAAAGGA
CTTTCTTACTGNGCTGACTCANACAGCCTGGACTCTCATGTTTTTTAGGAAAATTTGTCTGTTCTGG
GATCTACCTGCTTCTCATGTTTTCAGGGGGGAGNATATGGCATTTAACATGACTGGCTCCANTTCT
GGAGNCACCNNGCCTGNCNCCCTAAATGAGAGTTTGACTAANCATANGGCNTTAANNCTNCTGNC
NGGTCCCNCTTTTTGNACTTCCCTCCTCCNAGGNTATGANGCCCCCNACCNTACCNTTANCTN
GNCTTTTTGGCTTNNCCCCCNAAAACAAANTTNACNTTGGC

SEQ ID NO: 2493 ACTTTTTTTTTTTTTTTTTTTTTTTTTTNTACTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTANGGGGCAATTTTAAANAGTTTTATTTAAANATTGCATTTTCCACTTACAA
NACAGNTTTTATAAAGGGCAATGTTATTTCTTCCCTGGGCATATGTTCCATATTCAAGTATTGA
NAATGCCCAGTAACCTTACTATAGCAGCTTAACTTTTTTAAACTGCCACAAAATTTGCTACAAATTT
AGGNCCTTCAAATGTTTTAAATGGGNGGAACAATGCTACATNTACACNTGGNNGGCTNAANNAAC
CTNTTAAATGGNNGGCCCTGGGGAAGCNCNCCAGAGGGNGGNGCTCCCNCCAGGAAATCCCC
CAGGCATTTCTCTGGGATGCCTCTGGACTTTGGGNACCTTNGGCCGGGACACCCTTANGGCGAAAT
TCCANCACACTGGCGGGCCNTACTAAGGGGAACCNACCNNGGNCCAAACTTGGGGGAAANAANG
GNAAAACNGNTNCCTGGGGGAAAAATNTNANCC

SEQ ID NO: 2494 GGTACACTTGAAACCAAATTTCTAAAACCTGTTTTTCTTAAAAAATAGTTGTT
GTAACATTAAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACAC
TTCTTCTGGTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGAGATTTTTTTTCTTTACAATT
CAGTCTTACGCAACTTGAGAGCTTTCTTTCATGTTGTCAAGCAACAGAGCTGTATCTGCAGGTTCTG
AAGCATAGAGACGATTTGAATATCTTCCAGTGATATCGGCTCTAACTGTCAGAGATGGGTCAACA
AACATAATCCTGGGGACATACTGGCCATCANGAGAAAGGTGTTGTTCAGTTGTTTCATAAACCAG
ATTGAGGAGGACAACTGCTCTGCCAATTTCTGGATTTCTTTATTTTTCAGCAAAACACTTTCTTTAAA
GCTTGACTGNGTGGGCNCTCATCCAAGNGATGAATCCCCGTANCTGGCCCCGGCGGGGCTTCAAA

AGGGGGAATTCCANCCACTNNGNGGCCGTCTAATGGATCCAACCCGGGNCCAACCTTGGNGTAA

SEQ ID NO: 2495 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTGTGGGTTTAGTAATGGGGTTTGT
GGGGTTTTCTTCTAAGCCTTCTCCTATTTATGGGGTTTAGTATTGATTGTTAGCGGTGTGGTCGGG
TGTGTATTATTCTGAATTTTGGGGGAGGTTATATGGGTTAATAGTTTTTTAATTTATTTAGGGG
GAATGATGGTTGTCTTTGGATATACTACAGCGATGGCTATTGAGGAGTATCCTGAGGCATGGGGGT
CAGGGGTTGAGGTCTTGGTGAGTGTNTTANTGGGGTTAGCGATGGAGGTAGGATTGGTGCTGTGG
GTGAAAGAGTATGATGGGGTGGTGGTTGTGGTAAACTTTAATAGTGTAGGAAGCTGAATAATTTA
TGAAAGGAAAAGGGTCANGGTTGATTCCNNGGANGAACCCCTATTGGTGCCGGGGCCTTGTATGAAT
ATNNGCCTTNATTAANTATAANTACCTGGTTGAAAATGTTGGTTGGGGTATATAATGTAATTGAAA
TGCTCCGGGGNATAGGTATTTGAATAGGAATAGGNTTGGATAATGGGAANAAAAAGAAGGAANT
AAATTAATNTCCCTTTGGGTTAAGGGNNANCCCNNTNCTTGGCGGAACCCCTAAGCNATTAACAN
CTGNGGCNTNAATGNANCANNTGNNAACCTTGAAAANTGNCTAACN

SEQ ID NO: 2496 ACATTCTAGCTGAGAAGCAATGGGTCACTCATTAAATGAATCACATTTTTTTAT
GCTCTTGAATATTTCAGAAATTTCTCCAGGATTTTAATTTTCAGGAAAATGTATTGATTCAACAGGGA
AGAAACTTTCTGGTGCTGTCTTTTGTCTCTGAATTTTCAGAGACTTTTTTTATAATGTTATTCATTT
GGTGACTGTGTAACCTTTCTCTTAAGATTAATTTCTCTTTGTATGTCGTGTACCTTGTTAATAGACTT
AATACATGCAACAGAAGTGACTTCTGGAGAAAGCTCATGGCTGTGTCCACTGCAATTGGTGGTAA
CAGTGGTAGAGTCATGTGTGCACTTGGCAAAAAGAATCCCAATGTTTGACAAAACACAGCCAAGG
GGATATTTACTGCTCTTTATTGCAAGTTGTGGGATTTGGAGTGTGATTGAATGATTTTCATTTGG
CTTANGGCAAGAATTTTATGCCAAAAGNTCTTCATNTGAGNTTTNANGGAGAAAAAACCTTAATG
GATCTGATATGGTTTCCCTCANGGANCCCNCTGGGAAAAAAAACCCCTTNTTNGNGGGTTTAA
CAA

SEQ ID NO: 2497 ACAGCCAGCAAAGGGCGCTATATTCCTCCTCATTAAAGGAACCGAGAAGCTA
CTAAAGGTTTCTACGATAAAGACAGTTCAGGGTGGAGTTCTAGCAAAGATAAGGATGCGTATAGC
AGTTTTGGATCTCGTAGTGATTCAAGAGGGGAAGTCTAGCTTCTTCAGTGATCGTGGAAGTGGATCA
AGGGGAAGGTTTATGATCGTGGACGGAGTGATTACGATGGCATTGGCAGCCGTGGTGACAGAAG
TGGCTTTGGCAAATTTGAACGTGGTGGAACAGTCGCTGGTGTGACAAATCAGATGAAGATGATT
GGTCAAAACCACTCCCACCAAGTGAACGCTTGGAAACAGGAACTCTTTCTGGAGGCAACACTGGG
ATTAATTTTGAGAAATACGATGACATTCCAGTTGAGGCAACAGGCAACAACCTGTCTTCACATATT
GAAAGGTTTCAGTGATGTTGANATGGGAGAAATTATCATGGGAAACATTGAGCTTACTCGTATCTC
GCCAATTCAGTGCAAAACNTTCCATTNCTATTATCAAAAAAANNNNNNNAAAAAAGTNCTTG
GCCGGACACCTTANGGCNATTCACAAATGGGGGCCGTCTANNGGNTCCACTNNGNCCAACCTTGNG
NAACTGGCAAACTGNTCNGGNNAATGTTTCCTTCAATCCCAATTTNGCGGACTANN

SEQ ID NO: 2498 CGAGGTACTGGCTGGGATGGCTCTGATATAGCAGCCTTGGTGTAGTTTCTGCA
TTTCGGGAAGAGTGACTGGACTGGATTCTTCTAGCTCCTTCAATCCCATTTTCTCCTGTGGCATCAC
TAAGTATAAGACCTGCTCTCTTCTGAAGACCTATAAGCTGGAGGTGGACAACTCAATGTAAATTT
CAAGGAAAAACCTCATGCCTGAGATGTGGGCCACTCAGAGCTAACCAAAATGTTCAACACCATA
ACTAGAGACACTCAAATTGCCAACAGGACAAGAAGTTGATGACTTCATGCTGTGGACAGTTTTTC
CCAAGATGTCCCAAGCCTCATCGTGACGAGGCTCTTATCCCACTCCATTTTCTGCTCATGCCTGC
CTCTTTAATTTGGTAAGATAATGCTGNAACTAGAATTTCACAATCAGCGCCTTGTGCAGGTAATTT
GCAGAATGGTGGATGTGCATGNCATCATGTCAAACCCAATATTTGACTAANGGATCCTTATTCTNG
CCAATGNTTACTTTACACATCCTAATACACTGGTTATTCAATCCCGGGGNCCTGGTAAAGTANACC
TTAANTNACTGGTNTACNCCTGGTTNAATTANCCACTTTGGATCCCANAAAAAATNTGCCACTACT
NAANNGGNGAATTTGCNATGTGAACCTTTGGTGCCANAANAACCGGGGGCNGCCG

SEQ ID NO: 2499 GGTACACTTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTT
GTAACATTAAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACAC
TTCTTCTGGTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGGAGATTTTTTTCTTTACAATT
CAGTCTTCAGCAACTTGAGAGCTTTCTTCATGTTGTCAAGCAACAGAGCTGTATCTGCAGGTTTCGT
AAGCATAGACGGTTTGAATATCTTCCAGTGATATCGGCTCTAACTGTGAGAGATGGGTCAACA
AACATAATCCTGGGGACATACTGGCCATCANGAGAAAGGNGTTGTCAAGTTGTTTCATAAAACCA
GATTGAGGAGGACAAACTGCTCTGNCNATTTCTGGATTCTTTATTTCAACAAACACTTCTTTTAA
ACTTGACTGNGTGGGCCCTCATCCAAGNGATGAATAATCATCAAGGGGTTTGGTGGTTGGGCTTG
GGATTATATAAACTTCTTCTATTGTTGAGGCCCAAAGAGTTGGCCNCCCCACCCCTGGGGANGGG
GTNNGGN

SEQ ID NO: 2500 GGTACTTTTTTTTTTTTTTTTTTTTGTAGATACAATTGGCTTTTATTTGTGATTCA
TGAGTCAGGGCAGTTTCCATTCTGCAAAATATAGTGATAGCTCCTACTGGGCAATACAACAGTAG

AACAAGTGGGTTTTGTAAAATGGGAATCCCGGAACNGAAGAATATAAAATAAATTGATTTAAATAA
 ACTGATTGGTTAATTTTCAGAATACTTCATATTACTTTTTTCTAAGAGTTAAAGCAGAAAGGACTTTC
 TTACTGTGCTGACTCAGACAGCCTGGACTCTCATGTTTTTAGGAAAATTTTGTCTGTTCTGGGATCT
 ACCTGCTTCCTCATGTTTCAGTGTGAGTATATGGCATTTAGCATGACTGGCTCCATTCTGGAGTCAC
 CAGGCTGTACCTAAATGAGAGTTGACTAAACATAAGGCATTAACACTCTGGCAGGTACCCATCA
 NTTTTGGACTTCCATCATTCATAAGGTATGAAGNCCCNCTAATCATACAATTTATTTTGAGTTTTG
 NCATCCCCCCCCAAAANAANAATTTGACATTTGCCNAAAGGGTGGTTCCAACCNNTTNAAGGGTT
 T

SEQ ID NO: 2501 ACCTGAAAAATAAAGAGAAAAAAGCACAGANGCCAGTGAAAGAAGGACAG
 CCGAGTCCAGCAGATGAGAAGGGGAATGACAGTGATGGGGAAGGAGAATCTGATGATCCTGAAA
 AAAAGAACTACAGAATCAACTTCAAGGTGCCATTGTTATAGAACGACCAAATGTGAAATGGAGT
 GACGTTGCTGGACTTGAAGGAGCCAAAGAAGCACTNAAAGAGGCTGTGATACTGCCTATTAAATTT
 TCCTCATCTTTTACAGGCAAGAGAACACCTTGGAGGGGAATCCTATTATTTGGGCCGCCTGGAAC
 AGGAAAGTCCTACTTATTCAAAGCTGTTGCACCAGAAGCCAAACAGCCTCANCATTTTTTTCAATAT
 CTTCTCTTGATCTTGTTTCTAAANTGGCTAGGGTGAAAGTNGAAAACCTGGTTNAGAATTTATTTT
 CAACTTGGCCAGAANAGAACAAGGCCTTTCATTTTTNTTTATTGGATGAAAAATTNATTTCTTTTCT
 TTTGGGTTCCNAAATNGAAAATTAATTTGANNCCNCTCCTTNTAAATTAACCGGATTTCTTAT
 TGCCAANTNCAANGNGGTTNGGGTT

SEQ ID NO: 2502 GGTACTATAGAGACTCAGTTGCAAAAATTAACAAATATGCTGCTTGATTAAA
 ATGGGTAGGCTTCTCATGTGGCTCATTCTTTAATCTATTCTCTTTTATTTGGTTTGGTTTCATGGGGTC
 TCTGCCTATGGATCATACTTCAAACCTCTGGTGTGATCCTCCTGATTGTGACAAATATTAGTTACCT
 GGTGTGCTGTATTCTCTAAAACCTTTAAATGTTTGCATGCAGCCATTCTGCAAAATGTCAAATATTCT
 CTCTTTGGCTGGAATGACAAAACTCAAATAAATGTATGATTAGGAGGACATCATAACCTATGAA
 TGATGGAAGTCCAAAATGATGGTAACTGACAGTAGTGGTAATGCCTTATGTTTAAAGTCAAACCTCTC
 ATTTAGGTGACAGCCTGGTGACTCCAGAATGGGACCCAGTCATGCTAAATGCCATATACTACACTG
 GAACATGAAGAAACNAGGAGATCCAGAACAGACCAAATTTTCTAAAAACNTGAGAATCCAGCTG
 NCTNAGTCAGCCAGTAGAAAAGNCCTTCTGNTTACTCTTANAAAAAAGTATNTNAAGTTTCTGGA
 ATTAACCATNCGTTATTTAAATCAATTAATANATCTCNGGTCNGGATNCANTTACNAAACCNCTG
 GTTAACGGTGNTTGCCNATGGACTTCTTTTTTGCCAAAGGAATNGCCTGCTTGAATCAAATAAAC

SEQ ID NO: 2503 ACCCACTGTATTTATTTATGTGCAACAAGAAGTGTGCAAACTGCACAAACTC
 CTCCTGTTCAGCTAGTAGGCAGCAATTCTGTTATCTGGCATCCCATAGCTGGGTAAATTAATAAC
 AGGGCGTGAGAACAGGTGAGTCTAGAGGTCTAACTCTAACAGGGACCACCGTGCAATTTGAATAAA
 CAGTTGTATTAGGGATGTTGTTAAAGTTAGCCACTGGGCAGAATAAAGGATCCCTTAGGTCAAAT
 ATTTGGGTTTGACATGATGACATGACACATCCAACACTCTGTCAAATTACCTGCACAAGGCGCTGA
 TTGTGAAATTCTAGTTACAGTATTATCTTACCAAAATTAAGAGGCAGGCATGAGCAGGGAAAAAT
 GGAGTGGGATAAGAGCCTCGTCACGATGAGGCTTGGGACATCTTGGGGAAAAACTGTCCACAGCA
 TGAAAGTCATCAACTTCTGTCTGGTTGGCAATTTGAGTGGCTCTAGTTATGGNGGTGAACATTT
 TTGGNTAGCTTTGAGTGGNCCACATNTTAAGCATGANGGNTTTCTCTGAAATTACANTGAGTGTG
 CCCCTCCAC

SEQ ID NO: 2504 GGTACTATAGAGACTCAGTTGCAAAAATTAACAAATATGCTGCTTGATTAAA
 ATGGGTAGGCTTCTCATGTGGCTCATTCTTTAATCTATTCTCTTTTATTTGGTTTGGTTTCATGGGGTC
 TCTGCCTATGGATCATACTTCAAACCTCTTGGTGTGATCCTCCTGATTGTGACAAATATTAGTTACCT
 GGTGTGCTGTATTCTCTAAAACCTTTAAATGTTTGCATGCAGCCATTCTGCAAAATGTCAAATATTCT
 CTCTTTGGCTGGAATGACAAAACTCAAATAAATGTATGATTAGGAGGACATCATAACCTATGAA
 TGATGGAAGTCCAAAATGATGGTAACTGACAGTAGTGGTAATGCCTTATGTTTAAAGTCAAACCTCTC
 ATTTANGTGACACCTGGTGACTCCAGAATGGAACCNNGGCATGCTAAATGNCCTATCTCACACTGG
 AACATGAGGAACAGGTNGATCCCAAACAGACCAAATTTTCTAAAAACATGAAAATCCAGCTGGCT
 GATCACNCAGNAAAAAAGNCCTTTTGCTTACTNTTAAAAAAGTATTTGAN

SEQ ID NO: 2505 NCNAGCGGCCGCCCNNGNCNNGNACGCGGGCATGTGCNCCTATGGCNCACCC
 NCTGCAGAACAGGANGCTCCNNGAGCCCTTGTTNCTCCNCGAAAACCCCCAACATTACNAACCN
 CCNAGTGTCTGNACCCCTGNCCTAAATAATCCCACCCNCACTTCATGCCCCTGCGGATGCCCAAT
 CCAGGCCCGGTGAGGCCAAGGTTTCCCAGACGAGCCTCTGCGCCTCTCCACTGNTTATGAGCCC
 AAACNCCCTCNTGGCACAACGCTNTACCCTGCAGCTTGGANAACTCCANTGGATGGGGAGACTCA
 TGCANGACTTCNCTGCNGCCTTTCCNANGACTCTGCAGATANTGCCNTGCAAACTAANGAGTGA
 CTAGGTGGGTTGGNGACCCCTTACGAATGTTTCTCGGNACCAGGNGCCNTCANTGCTGGAATTGA
 GGGCTAAATCCCAAAGTGTCTCTNGACTGNCTNAGAAATAANGGCNCCAACTTACTCACCCCA
 TGGCCACANGGAAGCNCGGACCGGACCTTAATTTGGAANTTTTGGTTTGGGGCCGGGTTTTTTTT

TTTTTTTTGGNTTGATTAAGGANTTAAAAACNG

SEQ ID NO: 2506 GGTACCTGTTCTCTGTTTTTCAGATCCCCAAATTCTTGCATAAATGTTGATTCA
GAAGGAAACCTTAAGGGTTCAAGAAAGTGNAGAAGACTAAATAGTTCTTCAACTGTATTTTGGAG
AGGGGTGCCAGTCAAAAAGCACCTTGTGTTCCCTACAAAAAGTGAGAACAATTCACATCAAACATCA
CAGTACAAAGGTCCAGATGGGTCCATATGAAACAGCTGGGGTCCTTTCTCATCAACTCCTCCAAA
TAATAATGCTACTCCAAAGGGACGAGACATGGCACCTGGATCTGCATCTTCTTCTCCAAACTGCAA
AGCCAGATTGGACACAGCTTGGGTACACTCTCCACTGTCAATTGTCTCATTTGTAGGTGAACCAAGT
GGTTCTGTGTCTCCACTCTGGCTTTATCAATTAAGTCTTAACATCAGCAATTAACCCACTCATGGC
CAACCTATGTGAGCATCAATCTCTACAATTTTCTTCAATGCTGCTGGGCTTCATCANTGGGGAAAGT
AATTCNTTTTTTACAAGCTANGCNCACANCTTTGATGTCTGGNANCCCAAGGCTGGAA

SEQ ID NO: 2507 ACTTTTTTTTAAGCAATGGGTACCGNATTAATGAATCACATTTTTTTTATGCTC
TTGAAATATTCAGAAATTCTNCAGGATTTTAATTINAGGAAAATGTATTGATTCAACAGGGAAGA
AACTTTTTTGGTGCTGTCTTTTGTCTCTGAATTTTCAGAGACTTTTTTTATAATGTTATTCATTNGGT
GACTGTGTAACTTTCTCTTAAGAATAATTTTCTCTTTGTATGTCTGTTACCTTGCTAATAGACTTAA
TNCATGCAACANAAGTGACTTTCTTGAGAAAGCTCATGGCTGTGTCCCTGCAATTGGTGGTNACAT
TNGGAAAGTTTTGTNTGCNCTTTGGCAAAAAAGAATTTCCAATTNTTTGACAAANACACACGCCCCA
GGGGGATATTTACTNCTCTTTATATGCAGAAATTTNGGGATTTAGTGNGGAATTNGATTGANTTTT
NATTTGGCTTNAGGGCENATTTTTCNNTGNNAAAAAGTTTTNTTTTTNNTTTTAGGGAATAAAAAAG
CTTTATNATTCNGAATTTGTTTTCNNTNAGGANACNGTNTCTGTAATAANANANANNCATTTNTT
GGNGTCTCAAACC

SEQ ID NO: 2508 ACGCGGGGGCAGAGAGGCTGTTTCGAGAGCTGCGGAAGATGAATGCCAGAG
GACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTTGAAA
GTCATGATCTTCTTCGAAAAGGTTTTTCTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCCTGA
ATTATCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTCCACACTGAGAAACATTC
AGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAGGCAGTGCAGCAGGTTTCAGCGTCTTC
CATTTCTTTCAAGCTCAAATCTTTCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTGGA
GGATATTCTTAATGATCCATCACAAGCGAANTCATGGGAGAGCCCCACTTGATGGNGGAATATA
ACCTGGGTACTGNAATAAGTGNGCTGGTTCATGGAAACCGANGGCTGCATCTTGTTATAGCCATCT
TTNACCTTGCCGNANCACTAAGGCGAATTCACAACCTGGCGGCG

SEQ ID NO: 2509 GGTACTATACTCTGTATTCTCACAAATAGAGAAGACTAATATTGCAGACCTG
GTGACAGCTCTGATTGTCCTTTTGGTTGTATCCATTGNTNAAGAAATAAATAAGCGCTTCAAAGAC
AACTTCCAGTGCCCATTCGAATTCATTATGACCGTGATTGCAGCAGGTGTATCCTACGGC
TGGGACTTTAAAAACAGGTTTAAAGTGGCTGTGGTTGGGGACATGAATCCTGGATTTTCAGCCCCCT
ATTACACCTGACGTGGAGACTTTCCAAAACACCGTAGGAGATTGCTTCGGCATCGCAATGGTTGCA
TTTGAGTGGCCTTTTCAGTTGCCAGCGTCTATTCCCTCAAATACGAATATCCACTTGATGGCAATC
ANGAAGTTAATAGCCTTGGGACTGGGTAACATAGTCTGTGGAGTATTCAAAAAGATTGCTGGGGAG
TACCTGCCCGGCCGCGTCNAANGGCGAATTCACCCACTGGCCGCGCGTACTAGTGGATCCAC
TCGGACCAACCTGGCGNAACATGGCATACTGTTCTGGGGGAAATGGTATCC

SEQ ID NO: 2510 ACGCGGGGACTCAGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGG
CAGGTGGGTGAGGAAATCCAGAGTTGCCATGGAGAAAATTCAGTGTGAGCATTCTTGCTCCTTGT
GGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGG
ACTCTCGACCCAAACTGCCCCAGACCTCTCCAGAGTTGGGGTGACCAACTCATCTGGACTCAG
ACATATGAAGAAGCTCTATATAAATCCAAGACAAGCAACAACCCCTTGATGATTATTCATCACTTG
GATGAGTGCCACACAGTCAAGCTTTAAAGAAAGTGTGTTGCTGAAAAANNNNNNNNNNNNAANN
NAGGTACC

SEQ ID NO: 2511 ACACTTGAAACCAAATTTCTAAAACCTGTTTTTCTTAAAAAATAGTTGTTGTA
ACATTAACCATTAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACACTTCT
TCTGGTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGAGATTTTTTTCTTTACAATTCAGT
CTTCAGCAACTTGAGAGCTTTCTTCATGTTGTCAAGCAACAGAGCTGTATCTGCAGGTTTCGTAAGC
ATAGAGACGGTTTGAATATCTTCCAGTGTATCGGCTCTAACTGTGAGAGATGGGTCAACAAACAT
AATCCTGGGGACATACTGGCCATCAGGAGAAAGGTGTTTGTGAGTTGTTTCATAAACCAGATTGA
GGAGGACAAACTGCTCTGCCAATTTCTGGATTTCTTTATTTTCAGCAAACACCTTTTTTTAAAGCTT
GACTGTGTGGGCCNCTCATCCAAGTGGATGAATAATCATTCAAGGGTTTGGTTGCTTGGGCTTGGG
AATTTATNTAAAAACNTTTNTTCATNTGNTTGANCCCCAAATGANTTTGGNCANCCCCAACCN

SEQ ID NO: 2512 GGTACTTGAGTTCAAATGATAAACTTGAAGTTGTAGGCTTGGAAGAGTATC
AGCTCAGTATATCCTTCCTTGCCATAAATACAAGGGAAAGGCCAAGGAATAATCAGCATTAACTG
CCAGGTCCAAGGGTCTTCTATCCCTGACTTCATCTGAGTCACAAGATTTCTCTAATCCCGGTACCT
GCAGAACCCAAATTGGCGTTTGTTCATCAGAATCAGAGGTATCAATGGAGTGAGCCCAAGGTTTCG
AAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATGGAACCTTTGTGAAGCTCAACAAGGC
TTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACCGGTAGAAGTCTATTAT
TTCATCCTATGTGGGTAATTGAGGAGTATGCTAAGATTTTTCGTAACCTTGGGTTTGGNTTAATCCA
CCTCACTGNCTGCTATGATGGATAAAATGAAAAAAGTGAGGAAAAGCTTACNTCAGTGAGGGAAA
AATTTGGTATATGCCCGCGTACCTTGCCCGGCNGGCCGTCNAAGGCGAATTCCACCCCTTGCG

SEQ ID NO: 2513 ACGCGGGGGCCAAACACCTTCCTGACACCATGAGGGCCAGCAGCTTCTTGAT
CGTGGTGGTGTTCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCTGTAA
AGGTCAAGACACTGTCAAAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTT
CAGTTAAAGGTCAAGATAAAGTCAAAGCGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCT
GGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGTTGAATCCCCCTAACCGCTGCTTGAAAGAT
ACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTTCGGGGATGGCCTGTTTCGTTCCCCAG
TGAGAGGGAACCCGGTCTTGCTGCACCTGTGCCGTCCCCAAGAGCTACANGCCCCATCTTGGTCC
TAAGTCTTGCCGNCCTTTCTTTCCACACTGTCCATTCTTTCTTCCATTANGATGCCACGGGTGG
ACTTGCTTTTTTATCACTTTCAATAAAANGTCCTTTTGTTCAAAAAAAAAAAAAAAAAAAAA

SEQ ID NO: 2514 ACGCGGGGGTATTCTTTCCCAAGTCTCTATGGTAGCGTCAGCGTCGGAGGC
GGTAGTGACGGTGGCGTTTCCTTGAGGAAGAGTGAGGGTTCCAACCTTTCTGCTTATCTGGGAGGT
GTTGGGCGCGGACAGTCGAGATGTCAGAGAAAAAGCAGCCGGTAGACTTAGGTCTGTTAGAGGA
AGACGACGAGTTTGAAGAGTTCCTGCCGAAGACTGGGCTGGCTTAGATGAAGATGAAGATGCAC
ATGCTCTGGGAGGATAATTGGGATGATGACAATGTAGAGGATGACTTCTCTAATCAGTTACGAGCT
GAACTAGAGAAACATGGTTATAAGATGGAGACTTCATAGCATCCAGAAGAAGTGTGAAGTAACC
TAACTTGACCTGCTTAATACATTCTANGGCCAAAAACCCANGATGGGACCTAAAAAATGNGTTA
TTCATTATCTGCTTGAATTATTGGGGTTTGGACCCCAAAAAATAATGGTTTGATGTNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNGGTACCTTGCCCGGAACNCCCTTAAGGGGNA

SEQ ID NO: 2515 ACCCACTGTATTTATTTATGTGCAACAAGAAGTGTGAGCAACTGCACAAACTC
CTCCCTGTTTCAGCTAGTAGGCAGCAATTCTGTTATCTGGCATCCCATAGCTGGGTAAATTAAC
AGGGCGTGAGAACAGGTGAGTCTAGAGGTCTAAGTCTAACAGGGACCACCGTGCAATTGAATAAA
CAGTTGTATTAGGGATGTTGTTAAAGTTAGCCACTGGGCAGAATAAAGGATCCCTTAGGTCAAAT
ATTTGGGTTTGACATGATGACATGACACATCCAACACTCTGTCAAATTACCTGCACAAGGCACTGA
TTGTGAATTTCTAGTTACAGCATTATCTTACCAAAATTAAGAGGCAGGCATGAGCAGGGAAAAAT
GGAGTGGGATAAAGAGCCTCGTCACGATGAGGCTTGGGGACATCTTGGGGAACAACTGTCCACAG
CATGAAAGTCATCAACTTCTTGTCTGGGTTGGNAATTTGAGTGTCTCTAAGTTATGGGGTTGAA
CATTTTGGGTAACCTTTGAGTGGNCCACATTTAGGCATTGAAGGGTTTTCTCTGAAATTTACAT
TGGGNTGNNCCNCCTCCANT

SEQ ID NO: 2516 GGTACATGTGCCACATTTTCTTAATCTGGTCTATCATTGTTGGACATTTGGGT
GGTCCAAGTCTTTGCTATTGTGAATAATGCCGCAATAAACATACGTGTGCATGTGTCTTTATAGC
AGCATGATTTATAGTCATTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTATTTCTA
GTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAAGTTTACAGTCCACACC
AACAGTGTAAGAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCTGACTTTTAAT
CAAAACCACTATGAGATATCATCTCACACCAGTTAGAATGGCAATCATTATATGGTTAATTTTTTA
AAGTTTATTTTTTAATAAACAGTTAATTTTTTAAAGTTTATGCCTTTTTATATTTTTTAATACTGNTTTA
AAAATCCTATAATAAATCAGAACTGCTTAAAAATAGAAATAAAAGACCTATTACTGGCCTCACAT
CAGTGCACTCTGGCAGCTTTAAAGAAGTAGAATGAAGNTTTAAAAANCTGCGGCCACATAAAGGG
GTAA

SEQ ID NO: 2517 ACTGTGGTGTGTGAGTCTCAGCAGCCGCCACACGCTCCTAACTCTGCTGCAT
GGCAGATGCCTAGGTGGAAATAGCAAAAACAAGGCCAGGCTGGGGCCAGGGCCAGAGGGGAAG
GCCCTGGATTCTCACTCATGTGAGATCTTGAATCTCTTTCTTTGTTCTGTTTGTAGTTAGTATCAT
CTGGTAAATAGTTAAAAAACAACAAAAAACTCTGTATCTGTTTCTAGCATGTGCTGCATTGACTC
TATTAATCACATTTCAAATTCACCCCTACATTCTCTCTCTCACTAGCCTCTCTGAAGGTGTCCTG
GCCAGCCCTGGAGAAGCACTGGTGTCTGCAGCACCCCTCAGTTCTGTGCCTCAGCCCACAGGCC
ACTGTGATAATGGTCTGTTTAGCACTTCTGTATTTATTGTAAGAATGATTATAATGAAGATACACA
CTGTAACCTACAAGAAATTATAAATGTTTTTACACCCCAAAAAAAAAAAAAAAAAAAAAAGACCCCT
TTGGTCCANCCNTNTTTTCCAAGGAAATGCNCCCTTTGGGCTTNTTTCCAAGGAATTTAAATCAAT

ATTTCAAA

SEQ ID NO: 2518 ACGCGGGGACAGTAAAAGCAAAAGCAACAGCTCAAGCAGCCTCCTTGGAGA
AAACCTGAAAATTCAACTTGTTCAGAGAAGGTCTTGTACTATAGAGACTCAGTTGCAAAAATTA
ACAAATATGCTGCTTGATTAAAAATGGGTAGGCTTCTCATGTGGCTCATTCTTTAATCTATTCTCTTT
TATTTGGTTTGGTTCATGGGGTCTCTGCCTATGGATCATACTTCAAACCTCTTGGTGTGATCCTCCTG
ATTGTCACAATATTAGTTACCCTGGTGTGCTGTATTCTCTAAAACCTTTAAATGTTTGCATGCAGCC
ATTGTCACAATGTCAAATATTCTCTCTTTGGCTGGAATGACAAAACTCAAATAAATGTATGATTA
GGAGGACATCATAACCTATGAATGATGGAAGTCCAAAATGATGGTAACTGACAGTAGTGTTAATG
CCTTATGTTTAAAGTCAAACCTCTCATTTANGTGACAGCCTGGTGACTNCAGAATGGAGCCAGCATGC
TNAATGCCATATCTCCCCTGNAACATGAGGAAGCAGGTTGATCCCAAACAAACAAANTTTCTAAA
ACATGA

SEQ ID NO: 2519 GGTACTAACTCTGGAAGAATGGCAAGACAAGTGGGTGAACGGCAAGACTGC
TTTTTCATCAGGAACAAGGACATCAGCTATTAAAGAAGCATTAGATACTTTCCTTAAAGGCAAGA
GTGGACTGAGGGTATTTTTTCTCTTTGCGGAAAAGCGTTGAGATGAAATGGTTTGCAGACCGGG
GACACAGTGTAGTTGGTGTGGAATCAGTGAACCTGGGATACAAGAATTTTTTACAGAGCAGAAT
CTTTCTTACTCAGAAGAACCAATCACCGAAATTCCTGGAACCAAAGTATTTAAGAGTCTTCGGGG
AACATTTCAATTGTACTTTNNTTTTTTTTTTTTTTTTNTNANAAGGGNCGTGGNGCTGGAGTT
TAAATTGAGTAGTAGGAATGCCGNAGTAGTTAGGATAATATAAATAGTTNAATTAAAAATGGGTN
TGTTAGGGGTGGCCTGCCNNGCGGGCCGTTTAAAAGGCGAAATNCACCCACTGGGNGGCCGTCTA
ATGGATNCCACCGGGNCCAACCTGGGGGAACAAGGGCTAACTGNTTCTGGGGAAATGGTATCC
CN

SEQ ID NO: 2520 ACGCGGGCTGGACGCCAATGACCTAGAAGATAAAAAACAGTCTTTTCTACTAT
GACTGGCACAGCCTCCAGGTTGGCGGGCTCATCTGCGCTGGGGTTCTGTGCGCCATGGGCATCATC
ATCGTCATGAGTGCAAAATGCAAATGCAAGTTTGCCAGAAAGTCCGGTCACCATCCAGGGGAGAC
TCCACCTCTCATACCCCAGGCTCAGCCCAAAGCTGATGAGGACAGACCAGCTGAAATTGGGTGG
AGGACCGTTCTCTGTCCCCAGGTCCTGTCTCTGCACAGAACTTGAACCTCCAGGATGGAATTCTTC
CTCCTCTGCTGGGACTCCTTTGCATGGCAGGGCCTCATCTCACCTCTCGCAAGAGGGTCTCTTTGTT
CAATTTTTTTAATCTAAAATGATTGTGCCTCTGCCCCAAAAAAGTACCTN

SEQ ID NO: 2521 GGTACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGA
AGGTTTTCCAGTTTCTTAATGCGAAATGCGAGTCGGCTTTCTTTCCAAGAGGAATCCTCGGCAGA
TAAACTGGACTGTCTCTACAGAAGGAAGCACAAAAGGGACAGTCGGAAGAAATTCAAAAGAA
AAGAACCCGCCGAGCAGTCAAATTCCAGAGGGCCATTACTGGTGATCTCTTGCTGATATAATGG
CCAAGAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGTGAGGAAT
GCTTTCATTATGAGCATTTTACCTATTCCGATGGATTTTAGGTTTGGGTCTTCAGTAATTAAAGTTA
CCAAAAAAGT

SEQ ID NO: 2522 ACGCGGGCTGGACGCCAATGACCTAGAAGATAAAAAACAGTCTTTTCTACTAT
GACTGGCACAGCCTCCAGGTTGGCGGGCTCATCTGCGCTGGGGTTCTGTGCGCCATGGGCATCATC
ATCGTCATGAGTGCAAAATGCAAATGCAAGTTTGCCAGAAAGTCCGGTCACCATCCAGGGGAGAC
TCCACCTCTCATACCCCAGGCTCAGCCCAAAGCTGATGAGGACAGACCAGCTGAAATTGGGTGG
AGGACCGTTCTCTGTCCCCAGGTCCTGTCTCTGCACAGAACTTGAACCTCCAGGATGGAATTCTTC
CTCCTCTGCTGGGACTCCTTTGCATGGCAGGGCCTCATCTCACCTCTCGCAAGAGGGTCTCTTTGTT
CAATTTTTTTAATCTAAAATGATTGNGCCTCTGCCCCAAAAAAGTACCTCGGNC
GCGACCACCCTTAGGGCGAAATTCAACACACTGGGNGCCGTACTAATGGATCCGACTTCGGACC
CAACTTGGGGGAATNATGGGCATAANTGGTTCCTGGGGGAATGGTNTCCNTTCAATTCCCCCA
ATAANANG

SEQ ID NO: 2523 GGTACCCTCAATTTTCTTCATCCAGTAAGACAAGTATGCATCTTAAAGGGAAA
GCTTTTAGTTCATAACAATATGTTTGGTTGCTTTTCTCTGCTTTTCGGAACATTTACTGTTTTCTTT
ATTGGCTTTAGTGTGTTGCTGCCAACAGATAACATGTTAACATATAATTTACAACTCTCTTAGGTA
GGTGATTACATAGAAAATAATGCCAGCTAAGATTTATGGATTCAAAAGATAACTGACACAAGTT
CTTGTCCTCTACACTTGAGAGAACTAGCTGTTTAAACGCATAAATATATTGATAGTAACTACAAGTT
AAATAACATTCAAGTGTCACTATATAACATGCTGTCTTACTTGATTCTGTTTTTCAGACTTCATTCTA
GTTTCTCTTTGTTGGAAGAGTCTCAGAGATAATGTGTGCTTTAATTTAAACACTCATTACCAATATG
ATTTTGCCCAATGGTTGGTAATGNAAGGTAAAAAATATATTGGTTGGATCAAGATTTATAGATTA
CACATACTATTTCATCAAATATATGGTGATATTAATAAATGAATCCTAAATAAGTTACCTNTTTTC
AAAAAAGTCTGCCCCNCGTNAAGGGAATCNCCTGGGGCGTATANGGNC

CNCCTGGGCAACTGGGAAATNGGN

SEQ ID NO: 2524 CGAGGTACGAAACCAACGCCCCGAGGGCTGGTCGCGACTACAGTGCATATTA
CAGACAAATTGAAGAGCTGCGAAGTCAGATTAAGGATGCTCAACTGCAAAATGCTCGGTGTGTCC
TGCAAATTGATAATGCTAAACTGGCTGCTGAGGACTTCAGACTGAAGTATGAGACTGAGAGAGGA
ATACGTCTAACAGTGGAAGCTGATCTCCAAGGCCTGAATAAGGTCTTTGATGACCTAACCTTACAT
AAAACAGATTTGGAGATTCAAATTGAAGAACTGAATAAAGACCTAGCTCTCTCAAAAAGGAGCAT
CAGGAGGAAAGTCGATGGCCTACACAAGCATCTGGGCAACACTGTCAATGTGGAGGTTGATGCTG
CTTCAAGGCCTGAACCTTGGCGTCATCATGAATGAAATNAGCCANAAATATGAAAGCATNGGCCA
GAANAACCTTTCANAGGCCCAANAACAANTTGAGAGACAGCCTGAAGTTTGCAGCACNGGTCACA
TGGAACTNCTGGAGAATTAANNNGACTGTGGTCACTACCGACTANCNNCCTTCANANCCCTTAGAT
ANACTNAGCCCATTTACATGAANACTTTGAGGCNCTTTAANGAACAAGGCCTTCATANCNGTNNC
AACTCNTNNTTTNNCCTTTGNGCCACTGTNCAAATCGNNN

SEQ ID NO: 2525 GGACGAGTCAAGCACAAACTGCTGCGCCAGGAAAAGACAAGGCTAATTGGG
CCCAACTGCCCTGGAGTCATCAATCCTGGGGAATGTAAAATTGGCATCATGCCTGGCCATATTCAC
AAAAAAGGAAGGATTGGCATTGTGTCCAGATCTGGCACCTGACTTATGAAGCAGTTCACCAAAC
AACGCAAGTTGGATTGGGGCAGTCTTTGTGCGTTGGCATTGGAGGTGATCCTTTTAATGGAACAGA
TTTTATTGACTGCCTCGAAATCTTTTGAACGATTCTGCCACAGAAGGCATCATATTGATTGGTGA
AATTGGTGGTAATGCAGAAGAGAATGCTGCAGAAATTTTGAAGCAACATAATTCAGGTCCAAATT
CCAAGCCTGTAGTGTCTTTCATTGCTGGTTTAACTGCTCCTCCTGGGAGAAAAATGGGTCACTGCC
GGGCAATTATTGCTNGAGGNAAAAGNGGAGCTTAAAGAAAAAAATCTNTTGCCTTCAAAATGCAA
GAAGTTGGGGTCAGTATTGTCTTCTTGCACAGCTTGGGAANCCCCATCTTCCAAGGAATTTGAAAA
GAAGGAANATCCTTTTNA

SEQ ID NO: 2526 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGNTTTTACACAGTTTATTCANA
AGTTTAAAAGTTAAAATGNGGGCATTTCCTGAAACAAATCATCCCTGCCACTCCCCAACACA
AAGACTCTCCCAACACCGCAGTTCCTTCTNTTTACCCAGGCTTACCACACATTCTTGCAAAACACA
CAGGAGTCAACACCCCAACTATTTGGTAATACAAAGAGACTACAAAGTCACACAAAAGAATCTCA
TTTACTTCTTTTCACTAGCAGGCTATGAATGAAAGACTGAGAGGCAAAACACATCACCTTCATCCA
GAGTTGACACTTCCCTAACCTTTTTCTTCTCTAAGAGGTTAAAATCCAAAATAGTTTCACTGACA
ACTGTAACCTCTGATATTCCATTTTTCTTCTTGAATGGCTAAGCTAGGACATACTTCTTTCAAAG
CTGATCTTCAGAACCTCAAGACTGGCAGAAAGCANGGCTCCCACTGCAGCTNGGCACAAATACTTT
TGCAACANGGCAAAGTTCCCCATAGGNGCAAATGAGCNTTAAGAAGTTTCTAAACNTTTTAAAA
AAAATGN

SEQ ID NO: 2527 ACAAATTCCAGTGTGCAGACCACAACCTCAAAACAAAAAAGGTTGGTCATGC
AGCATTAAACTTTGACAAGGCCACTGACATCGTGACAGGTCTGAAACAGAAAACCTCCTTTGGGA
GACCAATGTGGGACAATGAGTTTTCTACAATAGCTACCTCCACCCCAAGTCTGTAGTGGGAGTTT
TCTTATGTGGCCCTCGGACTTTGGCAAAGAGCCTGCGCAAATGCTGTACCGGATATTCCAGTCTGG
ATCCTAGAAAGGTTCAATTCTACTTCAACAAAGAAAAATTTTGGAGTTATAGGAATAAGGACGGTA
ATCTGCATTTTGTCTCTTTGTATCTTCAGTAATTTACTTGGTCTCGTCAGGTTTGAGCAGTCACTTTA
GGATAAGAATGTGCCTCTCAAGCCTTGACTCCCTGGTATTCTTTTTTGAATTGCATTCAACTTCGNT
ACTTGAGCTTTAGCAAATTAAGAAGTTTGAAGTCTTTGAAGTCTTGAAGTCTTAAAGCCCATGG
ATCCNTTTTNANAAAAAAACTGTAAAATTTTTTTGGACAGCNTTACTGTTACCANGGTTTGATAA
CAAAG

SEQ ID NO: 2528 ACTGATGCTGAAAAATCAATAAGATTAACCCAGAAATTGGCTCAATAAGAAA
CCAGGGACTCCCAAAGGGGGTTTTACAATTCAGAAACAGGAAAAAATTAGAAAGTGGTTTATTTG
CAATTTACATGGATTCTCTACTTTGTGAGGTTTAGTATAATTGAAATGTATTGCAATTTTCAGGAA
CATTACCTACAAATTGATATTAGGTGGTCTACAGCTTGTAATTGATGTGCTTCATGATAAAGATGG
CAGTAATGATGTTTAAATATTCTAGTGCTCACTGGATTCTTCAATTTTGCAGGCAATTTGCAGCTCCT
CTGAGTAAACATTTATATTCAATTACAGAGTCTGATAAATAGGATTCCCGCCACCCACCCCTTC
TAATCACTGCAGAGTATTAATAGTGCTTTCTTATGGCTGATTTCTTGCNGGGAGCAAAGATAAGAT
TATAGCCCAATTTTTTTCAAACCTAACAGCATCTNCTNTGGGAGCTATTTAAAAAANTTTCTTTCACC
TTTTGACNTCANATGACACGACCTTGCTCCCTANTTTTGGCCAATGGNTAATN

SEQ ID NO: 2529 GGTACGCGGGGATTTCTCCCGGAACCTCTGCTCAGCCTGGTGAACCACACAG
GCCAGCGCTCTGACATGCAGAAGGTGACCCTGGGCTGCTGTGTTCTTGGCAGGCTTTCCTGTCC
TGGACGCCAATGACCTAGAAGATAAAAAACAGTCTTTCTACTATGACTGGCACAGCCTCCAGGTT
GGCGGGCTCATCTGCGCTGGGGTTCTGTGCGCCATGGGCATCATCATCGTCATGAGTGCAAAATGC
AAATGCAAGTTTGGCCAGAAGTCCGGTCACCATCCAGGGGAGACTCCACCTCTCATACCCCAGG

CTCAGCCCAAAGCTGATGAGGACAGACCAGCTGAAATTGGGTGGAGGACCGTTCTCTGTCCCCAG
 GTCCTGTCTCTGCACAGAACTTGAAGTCCAGGATGGAATCTTCTCTCTCTGCTGGGACTCCTTTG
 CATGGCANGGCCTCATCTCACCTNTCGCAAGAAGGTCTCTTTGGTCAATTTTTTTTAAATCTAAAATG
 ATTGNGCCTCTTGCACAAAAAAGTCTTGCCCNNGCGGCCGTTCAAA
 NGGCGAAAT

SEQ ID NO: 2530 CGAGGTACGCGGGAGCTCAGTGTGATTCAATAGTGATATGTAAGTGCCTCA
 AAAACTATGAAAAGCTTAGAGTTTCAGCAGAGGATGGTGTATCTGTTATGAGTGAGATGAGAAGT
 CTCTCTCTCATGGCTGGTAGAATGAATCCAGAATTGTCAACTTCACATAAGTCTCAGAATATCCT
 CAACCCTGCCTGTTTATAGGTGAACTAATGCACCAATTATTCATTCAATTTACAGAGAACTTAAAG
 CTAATATGTACGCGGGCTTCGCAGGATTTTCTGAGCCTTTTACCACTCCAGCCTAGCCCCCTACCCC
 CCAATTAGGAGGGCACTGGCCCCAACAGGCATCACCCCGCTAAATCCCCTAGAAGTCCCCTCCT
 AAACACATCCGTATTACTCGCATCAGGAGTATCAATCACCTGAGCTCACCATAGTCTAATAGAAA
 ACAACCGAAACCNAAATAATTTCAAGCCCTGNTTATTCAATTTTACTGGGGCTCTATTTTACCCTCTA
 CAAGCCTTANAAGACCTGCCCGGCGNGCNCNAAAGGCGAAATTCAACNCACTGGCGGGCGTA
 CTANTGGATCCANCTTGGACCAACCTGGGGTATCATGGCATACTGGTTCTCTGGGGNAAATGTTCC
 GTCCAATTCCNCANNTANAACCGGAACCTAAANNTNAAACNNGGNGCNATGAAG

SEQ ID NO: 2531 CGAGGTACTGGTTTTGGATTAGGAATTGTTTTCTCACTTACCTTCTTTAAAAG
 AAGAATGTGGCCATTAGCCTTCGGTTCTGGCATGGGATTAGGAATGGCTTATTCCAAGTGTGAGCA
 TGATTTCCAGGCTCCATATCTTCTACATGGAAAAATGTCAAAGAGCANGAGCAGTGACTTCACCT
 GAGAACATCCCAGCGGGAGGACAAGAGAAATCATGTTTATTCCTCAGGAATACTGAAGTGCCCTG
 GAGTAAGCTGCCATTCTTCTGTAACAATGTTATCAAGTAATGCTTTAACTCCAGCACCTGGTTAT
 GCATTTGAAACCAAGTCTGGTTCTTNGNNTTGNATTTTCTCTCTGGAAAGTTGTAAGGAGGTGGTC
 TTAAATAAATTAACNNAATAGTAATANNANATATTNNATCTTNNNTNAAAAANAAGNCCTGNC
 CNGGCCGNGCNCNAAAGGGNGAATTTCAACNAACTGGCGGGCCNTACTATTGGATNCTANCTT
 GNTCCCATCTTNCGTNATCATGGGCANNCTGTCCCTGTGGGAAAAATGTCNNCTCNAATCCCTC
 ANTTANANCNGGANCTTAANTTTAANCCTGGGNTCNAATNGNGGCNACNCNNTTATTGGTTNNN
 NNTGNCCTTTTCNCNGNAACTTTTTCNTCTTTNTANNTGCCCC

SEQ ID NO: 2532 ACATATTAGAAGTCTAAGGAGTAGCAAGTCAGTGGGAGGACTTTTTACCCCC
 TGGCATTAGCAGCTTCGACCTCATTTTCCAGATGCACCAGCTCCTATTAATAAGTTAGCAAGGAAA
 GTGTATGTCACGTGCAGGAACAGTGAGGCAGGGACAGGGGTTCTGCTCCTTCTCACTTACCACCG
 GCACACAGCTTGCCCCGTCTTTGCCCCCAAAGGTATTTTGTGTCTAGTGTCAAATTTGGAGCTATTC
 TTCCTGGTCCCTTAACCTTGGGTTTTAAAAAGAAGGCTTCTCTGTTGGGTAGCCGTAAGAGCTGA
 GTATAGTAAGTCTNTTCAAAGAGATGGCAATATGCTGGGCATCTACTTTAAACAAAGTGTCTGAT
 TTTTGCAAGAAAGTTAGGATTTTATTGNCTTATTTCTTTACAGGTCTGCAGTTCATCAGAGTANT
 TTTTTAAATAACTCANGGTGGATGANAAANAATTANAATGAAAATTACTTATGTTGGAGCTGNA
 AATGTTTAATTGGAANAATCTTTTNATAAACCATTTTGTNNNTNGTANNAANAANTTNCNTNTN
 TNNNTNTTNNNTNANTTANNNTNCCATNNNAATAANATAAAATNNCTNNCNTNANCNCTAGGG
 GATTNNCTNTTTGNTTATTNTGGCTCNATGNCNN

SEQ ID NO: 2533 GGTACTGGTTTTTCTGAGAAACAGTCCCTCGTGAAGTGACAGTAGCTCAGAG
 AGTCTAGTCTCAATCTGCTGTATGGGCTGGTAACCACTGAGGCAACCGATTTTCCACTGTTTGTG
 GAATATTGCATGATCTTGGGTAGGTCTGGATGGTTTCAGATGGGAGTCTCTGGTCAAACATTCTAT
 CCCGCTACTACTTCAGGTAATCATGTTTTTCACTTAAAGTTCAGATTCCAGCATATATTGAGATGA
 ATATTCCCTGGTTATACTTTGTCAATAGTTTTCTCATTGCTACAGTGTATTGGTTTAAATTGTCACAA
 GCTTAATTTAAAGACATTGGATTACCTTTGGATCCATTGTCAACTGGAAGTGCTGCTTCATTCCA
 CTTACAATCCTAATCTTGAGCNAATTGAAAAAGCCTATATCAATAATGATTTGTTAATATTATTAA
 TTAANAAGTACAGCTGGCATAAGAACATAATTTTATGAACNGAAAGAACTCAGGACATATTAAAA
 AATTAAGTAACTAAACACTTTTGCCCCNACTGATACATTTCAGAATGGGCTTTTNAAGGCTTG
 ATCCNGTTTAAATAGNGTTATTTAAAAACAANTATTCCANANNTTATNTTTTCTGGGNCTTTTCAA
 AATTCTTTGTTTACNCNAAAGGNTATAGNAACTTNGGTTTCNGG

SEQ ID NO: 2534 CGAGGTACTTTGACTTACTAGGGTGATTCAAAGTTTCAGGAAAAAGAAATTT
 CCCAGTATCATTTTCTTAATCTTATTAAACCCAAACATAAGAATGCCAAAAATACAGAGCTCACA
 TTTTGCTGGCATAACATTTCCAAATTTTAAATGCCCTCCCTGACAGGTGAATTTTAAAGGATAAAAAA
 GCAGACACTTTCAAACATTCTTGTGATGAAGTAGAAAAAGCCCTGGATAAGTGGCCAGCTACA
 CTGGATTTTGTCTCAATTCTTCATTAACCTTTACAGTCTTCAGCAAATCCCTTAACTTTGAGCTTCTA
 TATGTAGTGACATCATTAATAATGCTGNGGTATTTAAATGTGATAAACATAGATGAAAGCATTTTG
 AAATGGTTGAAATCTACATAAATACCNTAATAACTAAATTCACAGGATAGGATCTGAGAGAGCT
 AAGCTGCCAGTATTATTAAAGGAGCTTATTACAGAAAAANCCAGCCTCATTACAGGNTATGT

CTCATATCTCTTGGNCAATGGTTTAATAGAATGAGTATNTTGAGAAAAAGTNGGAATNANCTAG
GAGACANACCTGGGCAGTNAATGCTTCTCACGNTTTAAAGGGTAAGNGTAGGCACCCCTCNGANA
TCCTANTGGGGGTTTACCNCAANGCCAGGNCCNNNGTCCT

SEQ ID NO: 2535 CGAGGTACCCTCCAGGTCATGGTGATATTTACGCCAGTTTCTACAACCTCTGGA
TTGCTTGATACCTTTATAGGAGAAGGCAAAGAGTATATTTTGTGTCTAACATAGATAATCTGGGT
GCCACAGTGGATCTGTATATTTCTTAATCATCTAATGAACCCACCCAATGGAAAACGCTGTGAATTT
GTCATGGAAGTCACAAATAAAACACGTGCAGATGTAAAGGGCGGGACACTCACTCAATATGAAG
GCAAACCTGAGACTGGTGAAATTGCTCAAGTGCCAAAAGCACATGTAGACGAGTTCAAGTCTGTA
TCAAAGTTCAAAATATTTAATACAAACAACCTATGGATTTCTCTTGACGCAAGTTAAAAGACTGCA
GGAGCAAAATGCCATTGACATGGAAATCATTGTGAATGCNAAGACTTTGGATGGANCTGAATGT
CATTC AATTAGAACTGCAGTANGGGCTGNCATCAAAGTTTGTAGAATTCTCTAAGNATTAATGTG
CCAAGGAGCCCGTTTCTGGCTGTCAAACCAACNTTAGACTCTTGCTNGNGATGGCCAACTCTATAG
TCNTAATGCAGGATCTNTGACATGATGNAACCGGAATTTCTANGTGCCCTTGGTAAATTAGCNGT
NTTTACNAAGGTNNGATTTTNTAAAATTTAANNNTCCCNATCTNAATGGACCCNT

SEQ ID NO: 2536 ACGCGGGGGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCG
CGTCTTGAGTCGGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATTCCTCGGAACCGCGATT
CGGCGTGTACAGGAATTCGAATTTAGAGTTTAAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTA
CAGTATCTCAAAGACTTCACTTGACTTCTTGATCCTGCATAAAACCAAGGAGAAAAGAAATGGGT
CGCTCCAATTTAGATCACATTCTTCAAGGTCAAAGTCTAGATCACAAGTCTAGTTCTCGATCAAG
ATCAAGATCTCATTCTAGAAAAGAAGCCGATACAGTTCTAGGTCTCGTTCCAGAACATATTCAAGGN
CTCGTAGTAAAAATCGNATGTATTCTAAANAATATCGTCCGATTACNGAAATTATAGAAGAATGA
GACCACCTTATGGGTACCTNGGNCGCGANACGCTTAGGGCGAATTCNCACACTGGCNGGCGTA
CTANTGGATCCNACCTCGGNCCAANCTTGGCGTATCATGGGCATAACTGTTNCTNGGGGNAATG
TATCCCGTTACAATTTCCNCACATCNAACCCGAAGNTTNANTGTAAACCTGGGNGCCAAATAGN
GACTNACTNCATAATGNGTGGGCNANTTCNNTTCNATNGGAACNNNNCT

SEQ ID NO: 2537 ACATGCAGAGGTAAAGCTGAAGCTGGCCAGGGGATGGCTACAGTTCATGATC
CCCAAATCTGGTGCTGATAGAGGCTCACACTGAATCACCTTGACAGGTTGGTTCTGGAGATGACCA
GTTTCCAAATGGTCCACAGGTGGTTTCTTCAATCCAGTTAAGTTTGTCTTCAGAGCAGCTGAA
GGCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAGGGTGAGTACATTACACACCAGTGAATAGTA
ACAGATTGTTAGTATGTTCAAGCTTTGTGTTGCATGATGGTAACTATAGAGTTTGGGGTCAAGTTG
TTTGACAGAGGAATCCAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAAGTCTGAAT
GCTCCACTTTTTCAATTTCTCTCTCCATTCTTCAGTAAAGTCAACTTCAATGTCNGATGGATGAAACC
CAAACACATAGCAATTCAGGAAATTTGACTTTCCNTCTNTGCTGGATGACGTGAGTAACCCTGAAT
NTTGGAGTACCTTGGCCGGACCCNCTANGGNGAATTCACACACTGGNGGCCGTTCTTTNNGTCCA
GCTTTGGTCCAACTTTGGGTANNT

SEQ ID NO: 2538 ACCGTCCAGCGAGTTGCAGATCTACACTTGGATGGATGCAACCTTGAAAGAA
CTGACAAGCTTAGTAAAAGAAGTCTACCCAGAAGCTAGAAAAGAAGGGCACTCACTTCAATTTTGC
AATCGTTTTTACAGATGTTAAAAGACCTGGCTATCGAGTTAAGGAGATTGGCAGCACCATGTCTGG
CAGAAAGGGGACTGATGATTCCATGACCCTGCAGTCGCAGAAGTTCCAGATAGGAGATTACTTGG
ACATAGCAATTACCCCTCCAAATCGGGCACCACTCCTTCAGGGCGCATGAGACCATATTAAATTC
TATTTACTATTTGNTGAATTTATTTTTCCCTCAGTTATGTAAAATAAACATACTCTTCTTCTCCCTG
ATTATTGGCATTAAAGCCTTTAAATTTCAAACAAATTATAATGCATCATCTATTANGAGTTAGATTT
GGATGTGCTATTGGATGAATACNAATAAGCTGGATGGTTCAAGCCCTTCTGTAAAATATGAANAA
AAGGCTCTTACATTCTGGGNAAAAATGTCCTTTGGCGGGAACACCCTANGGCGAATTCACACAC
TGGGGGGCGGTCTTATGGATCCAACCTTGGTCCNACTTGGGGNAACATGGGCTAACTGGTCTGGG
AAAATGTATCCGTTCAATTCCCCANNTTCAACCGGAGCTTAANG

SEQ ID NO: 2539 ACGTGGGCACAACCTCCACCTCCTGGACTCAAGCAATCCTCCCACCTCAGCCT
CTCAAGTAGTTGGGACTCCAGGGTCACACCACCACATCCAGCTAATTTATAGAGACAGAGTTTAC
CATGTTGCCAGGTTGGTCTCGAACTCCTGGACTCAAGCAATCCTCTCATCTCGGCCTCCAGAGT
GCTGGGATTACAGGTGTAAGCCACCACATCTGGTAACAACTAGCAGTTTGTAGCTGACAAAGAAAT
TCAGCCCTAAATGACCTGCCTGAAGTTATTTTGACATGTATCTTCCCCACTGCTGCACAAGGGGC
TAAAGGAACCTCTACCGTGATATCTATGTCAAGTGTCTTATGCTAGGATTAAGAGTATTTATATGC
ACAAAGGGCTGCATTTTCAAAAACCTTTCTTTCTNCTCTGNCATTTGGTTCCCTTCAGCTTTTTCAC
CCTGTGCACAAGANACTGCCTGGTCAAAGANGGGAAGGAAAGAATCTGTAACAATGCCCGTAAN
AAGCAAGGGCTTGTGAANTGATGGATGCTGTTNGAACAAAACAAAGTNTNGCAGGATGGACAGA
AAAAGTGGGAACCAGCCTTNGGANGGTGGGAAGGGTNAAAGNTCNNAATNAACNCTGAAANGAN

GGAAAANNTGGGCCCATGANGGGGGAANCCAGGNTNNGGGGACCCCTNAAGGG

SEQ ID NO: 2540 ACCATTCCTTCTGAACTATTCCAATCAATAGAAAAAGAGGGAATCCTCCCT
AACTCATTTTATGAGGCCAGCATCATTCTGATACCAAAGCCAGGCAGAGACACAACCAAAAAAGA
GAATTTTAGACCAATATCCCTGATGAACATTGATGCAAAAAATCCTCAATAAAATACTGGCAAACCT
GAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA
GGCTGGTTCAACATATGCAAATCAATAAACGTAATCCAGCATATACACAGAACCAAGACAAAAA
CCACATGATTATCTCAATAGATGCAGAAAAGGCCCTTTGACAAAATTCAACAACGCTTCATGCTAG
AACTCTCAATAAATGAGGTATTGATGGGATGTATCTCAAAAATAATAAGAGCTTTCTATGACAAA
NCCCCAGCCATTTTCATCCCGAATGGGGGCAAAAACCTTNCCTTTGAAACAGGGGCCAANA
NANGGGGGGCCNTTTTTACCATTCTATTTAAATATNGTTGGAAATTTTGGCCGGGCCNTTTGCCN
GGAAAGGAATAANGGGTTNCATTTGAAAAAAGGACCCAANTTGC

SEQ ID NO: 2541 GGTACCCTTAAACTGGCAGGACATTTTTGAAATCACAAATTTGCACATAAAG
AATGTCACGAACAGCCATGTATCCATATACAGCAATCAAATAAGGAACCTTATGACCTAAAGCAAA
GGTAAACTTTCTTGAACTTAACATTCTATACCAACTAGGCAACCTCTGCCAGGATGAGAGTTGG
ATTTTTCAAAAACCTCTAATTTAATAGTGCAGCATTTCGTTTTCCCTGATGGCCTGTGTTTCACAGC
AGTTTTTAAAGACTGCTTGTCAACTATAGCTGCAGCCTATATCCCACTATGGAAAAAAGTAAAT
CTTAGTTCAATTTTTGGCAGTTGGTTCTGTATTTAAATTTAAAAAACAACACTTCCCTTGGCANG
GTAAAAGGTTATTATCAATCTGTGCNTAACTAAAAAGTCAAGCAAATCCAATTTTGCTTAAGGAA
CATGTAAAGNACAATCTTGGNNTTCCCTGCCCTGGNTGAACCATTCACCCCTTAANAATTACNCCT
TTGGGTCCTTGTTCANNAAAAAACCCNANTTGACCGCTTAACCTTTTNAATGGCCCCACCTTTNA
AGGTNTAACNNAACNTTATTTTTT

SEQ ID NO: 2542 GGTACAGTTTCCCTTCTCCAGGGTGACAGATGAGCCTTTTCCGAAGTTCTCAG
CTTTCTCTTCTATCGAACTTCCCATGTGCGTTAAAGTGTTGTAGAGATAGCGGATGCGTTTATTA
AGGTTGTGCAGGTCATCAGCGAACATTCTACTTCCAACCATTTTCTCTTTCGGATACAACGTTGC
AATTCATTCCCTTTCCAACCTCGAAGCCATATGGGGCCCCCTGATCAAGTTCTTTGGGGTGCTTTCA
AAGTTTCCCAGGATCCCGATGTTGTCATACACTCCGAACATGGCCC'TTTCTCGTTCCAACGATCA
ACCCTTTGGGGGGCGGGAGAGTGAGCCTTATACCGATCAATCTAGGCACACCAAGAAAGAGGCT
TCTGCACGCCAGAAGCAGCCAGTCCCACAGGCGCCTACCTGGCCCGGATNAGANGTCCCTTGCCA
TTTTTTNTAGTNTCCCCNTNAACAGGACACCCAAATTAGCCCAAAAAAATGACAGGAACCGNC
CCCGGCCAACTTTANAACAATTCCCTGCCCGGGNGGGCCGTTTAAAGGGGNAATTCAACCACCTG
GGGGGGCGTTNTATNNGGACCCGGCNCGGGNCCAACCTGGGGGNNN

SEQ ID NO: 2543 ACTGGAAGTGCTATATAATGCAGTGTTAAAAAAGAAATAAAATGCA
CATAGATTTGAAAGGATGAAATACAACCTTTGTTTCAAGTAACATGATTGCTTTGTAGAGAATTC
TAAATAACAAAAACCTGCTGACATTAATAAGCAATTACAGCAGGATTGCAGGATACAGTCCTCA
GGTAGATGATAAAAAGGAATTGGACATCAAGTCAATTAAGACACGGAGAAACCCATAATGCTTA
TTGTTAAGTGAAAAACCAATCTGAAAAGGCTTTCTATTTGTATGATTGCAATTATATGACATTTTGG
GAGAGGCAAACTATTGACCAGTGAAAGGACCAATGGGTGCTGAAAGTTGAGGGGAAAAGGAGG
GATGGCAGGTAAAAAGNGAATTTTAAAGGAGTGNAAGTNCNNGGNCGGACCCCCCTAAGGCCGAA
TTCANCCACTGGCGGCCGTATTATGGATCCGNCCTCGGTNCCANCCTTGGNGNATCATGGCCANACT
GGTCTTNGGNAATTTTCCCTTCAATTTCCCCACANCCAACCGGAGCTTAAAGGGAAACNCGGG
NCCCANTAAAGAAN

SEQ ID NO: 2544 GGTACAGGTTAGGGGGCGGGGTGGGCCAAGAAGGCAATCATTGGGCAGAA
AAACAGGGTCAGATGTTTTCACTTAGGGCTGGGGCTCAGGCTTGAAGGTGGGAGCCCAGCCGTT
CTGTGTCACCTCATAAGAAGTGACAAGAGTGCAACCTGTCTCTCTCCCTCCCCCTCATGCACACAGAG
GCCACGGAAGCACACAGCAAGATGCAGGCCACCCAACAAGCCAAGAAAAGTGGCCTTAGAATGA
AACTATGTTACTGGCACCTTGATCTTGGAATTTCCAGGCTCTAGAATCATGAGCAATACATTTAT
GTTGTTAAGCCCCACGGCCGGGCGCAGTGGTTCACGCCTGTAATCCCAGCACTTTGGGAGGCTG
AGGTAGGAGGATTGATTGAGGCCAAGAGTTAAAGACCAGCCTGGTCAATATACAAGAACCCTNT
CTTAANTAAAAATAATAGGGCCGNCCGGA

SEQ ID NO: 2545 CGAGGTAAGTATGCTGAAAAATCAATAAGATTAAACCCAGAAATTGGCTCAAT
AAGAAACCAGGGACTCCCAAAGGGGGTTTTACAATTCAGAAACAGGAAAAAATTAGAAAGTGGT
TTATTTGCAATTTACATGGATTCCCTCTACTTTGTGAGGTTTAGTATAATTGAAATGTATTGCAATTT
TCAGGAACATTACCTACAAATTGATATTAGGTGGTCTACAGCTTGTAATTGATGTGCTTCATGATA
AAGATGGCAGTAATGATGTTTTAAATATTCTAGTGCTCACTGGATTTCATTTTGCAGGCAATTTGC
AGCTCCTCTGAGTAAACATTTATATTCAATTACAGAGTCTGATAAATAGGATTCCCGCCACCCCA
CCCTTCTAATCACTGCAGAGTATTAATAGTGCTTTCTTATGGCTGATTTCTTGCAGGGGAGCCAA

AGATAAGATTNTNGCCCAATTTCTTTCAAAACCTCAGCAGCTTTTCCNITTGGGAGCCTTTTAAAA
ANTTTCTTNCNCTNTTTGACTTAAAATGAACCAACCTTGCTTCNCTTATTTTTGGCCGANNGGGT
TAAACTTCCNGGGTTCCTTTTTTCTTNTTCCANGGGGNNTAACTGG

SEQ ID NO: 2546 ACGAGCAGCTGTCTGGGAAGTAGGGGGTTAGCTTGGGGACCTGAACTGTCTT
GGAGGCCCCAAGCCATGTTCCCCAGTTCAGTGTTCATGTATAATAGATTTCTCCTCTTCTGCCCC
CCTTGGCATGGGTGAGACCTGACCAGTCAGATGGTAGTTGAGGGTGACTTTTCTGCTGCCTGGCC
TTTATAATTTTACTCACTCACTCTGATTTATGTTTTGATCAAATTTGAACTTCATTTTGGGGGGTATT
TTGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTCGCACACTGAAATATCCTTTTATGCAACTCAAATT
TTCAAAAACCAGAAAAATCAAATTATTATGCTCTAGCCAAATTATGTAANGGTTTCTTTTTCTTTCTC
TGTCACCCAGGCTGGACTGTAGTGGAAACAATCACAGTTCAANTGNAGCATCGGCCTCCTGGGCTC
AAGGGATCTTACTGGCCTAACCTTCCCGANTAACCTTGGAACTATTGGNGAACAACCCCCANCCN
NCTAATTTTTTAANTTTTTTNAAAAACNGGNTTTTNCNGTTNGCCAAAGGTTGGTTTNAAAANTTG
GGTTAAANGAACCTTTCCNCNC

SEQ ID NO: 2547 GGTACTGAANGGCTGGAGACAACACTTTATCACGTTTGGACTGACAGGAG
TGGAACAGTAGACCCACAAGAATTGCANAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCCCC
ANGCTGTGAATTCAATTGCAAAACGATNCANCACCAATGGAAAGATCACCTTCGACGACTACATC
NCCTGCTGCGTCAAACCTGAGGGCTCTTACNGACAGCTTTCGAAGACGGGACTACTGCTACCAAGG
TGTTGTGAATTTCCCATATGATGATNTCAATCAATGTGTGATGAGTGTTTAAATCAAGANGAAGCT
GCATGAATGTNATCAACATTCCAACCTGGAGCTNTCCTTTGCTTGCTCTNTGCTTCNGAATATGT
TAACTTACATCACCACTTTCTCTTAACAGCTGGTGGCAAAGTTTATTACTTTTNTGTACCTGCCCCG
GGCCGNCCTTCAAAAANGGCGAATTCCACCCACTGGGNGGNCGTTNCTAGGNGGTTTCCAACCTCC
GGNCCCAACCTNGGGGAANCATTNGNCANTACCTNTTTCNTTGGGGAAAATTNNTTTCCNTNNA
NTTTNNCCAACNTTCCAANCCGAAAACTAAAGGGTAAACCTNGGNNCNCNTAAANNAN

SEQ ID NO: 2548 ACTCAAGTTTATAATGTCCCCAAACCTTAAGACTAGAAAAATCATCCCAAGAA
AAAGGCCTATAGTTGGTTTAAATTCCACCCTGAGAATACTGTGATAAAAAATCAATATATTTTCAGAGC
TAGTAAGTATTTAAAAATTAGTGTCTCAAAAAGGGGACATCATAAGGGAAATACAGGGTTTAGAG
GTCTGAGCTCAAGTGGTGTAAGACAGNTCTTTCTTCTCCTCTTAAACTCTTNACTTTGCTCTAA
CACGGAAGATGGGGGACAGTGATCCCGAAGGTTTACTAAAATATTGCAGCTTTCAGTANTTATGA
NGAAGCNCATATATNACTNNAAGAAAGCNCATCATTTGGAGTNNCTCNGGCCGCNACCACGCTA
AA

SEQ ID NO: 2549 ACGCGGGAGCTACGGGCATGCAGTGGACCTATGAGCAGAGGAAAAATCGTGG
AGTTCACCTGCCACACAGCCTTCTTCGTCACTATCGTGGTGGTGCAGTGGGCCGACTTGGTCACT
GTAAGACCAGGAGGAATTTCGGTCTTCCAGCAGGGGATGAAGAACAAGATCTTGATATTTGGCCTC
TTTGAANAGACAGCCCTGGCTGCTTTCTTTCTACTGCCCTGGAATGGGTGTTGCTCTTAGGATGT
ATCCCTCAAACCTACCTGGTGGTCTGTGCCTTCCCCTACTCTCTNCTCATCTTCGTATATNACGA
AAGTCNGAAACTCATCATCAGGCGACNCCCTGGCTGGNTGGNTGGANAANGAAACCTACTTTAN
CCCTCCGTNCTGCACNNCNGTNGATCNTCATGGCACACACTCTTGCATCCGAAACCCCAACCCCTTT
TTNTGNTNCTTGGGCNGGNNCCNCNCTTAGGGGGGAATTCCANNANNCTGNCCNGNCGGTTNTA
NGGAATCCNCNTNGGTACCCANCNNTGGCGAANTAATNNGANAANNNTTTCTGNGGNAATG
NTTCCCTTNNATTCTTNANCAANANCANCCNGAATCAAAAANGTAAAACCCNNGGG

SEQ ID NO: 2550 ACTGGATTTAACTACCTTTGGCTTAATTCCAATCATTGTTAAAGTAAAAACAA
TTCAAAGAATCACCTAATTAATTTAGTAAGATCAAGCTCCATCTTATTTGTCAGTGTAGATCAAC
TCATGTTAATTGATAGAATAAAGCCTTGTGATCACTTTCTGAAATTCACAAAGTTAAACGTGATGT
GCTCATCAGAAACAATTTCTGTGTCCTGTTTTTATCCCTTCAATGCAAAATACATGATGATTTTCAG
AAACAAAGCATTTGACTTTCTGTCTGTGGAGGTGGAGTAGGTGAAGGCCCNCTGTAACTGTCCTT
TTTCTTCCCTTAGCAATGGTGAACCTGTCATTACAGAACCTANAGGCTCACAGNCTNCTGGAGGAAG
CAGCCTCCNTTTGGATCAAGAAATATTAAGGAAACCATTTGTTGGGGGNNCCGGCTTTGCAANC
CTCAAACNAAANTGGGGACATNTTGTGGTNTGNTGCCTNAGGAATTTCTNAGCNCNTNNNGGCCN
NCNGNCTTTCTTNAANTTANGGCCNNAGGNTNNGCTANTTGATTTTTCTCTTTNCCTCTTTTGGG
GGNGAGGGNTTTACTCNGTTTAAAANTGGAACCTCCN

SEQ ID NO: 2551 ACGCGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAG
GCGGAGCTTGAGGAAACCGCAGATAAGTTTTTCTCTTTGAAAGATAGAGATTAATACAACCTACT
TAAAAAATATAGTCAATAGGTTACTAAGATATTGCTTAGCGTTAAGTTTTTAACGTAATTTTAATA
GCTTAAAGATTTTAAAGAGAAAATATGAAGACTTAGAAGAGTAGCATGAGGAAGGAAAAGATAAAA
GGTTTCTAAAACATGACGGAGGTTGAGATGAAGCTTCTTCATGGAGTAAAAAATGTATTTAAAG

AAAATTGAGAGAAAGGACTACAGAGCCCCGAATTAATCCAATTTGAANGGCCAATG

SEQ ID NO: 2552 ACGCNGGGAACGCTGGGAAACTCCCGGCCTCCGCCACCATCTTGCTTTCCTTT
AATCCGGCAGTGACTGTGTGTCAGAACAACTCTGAATCATGAAGCTACTAACCAGAGCCGGCTCTT
TCTCGAGATTTTATTCCTCAAAGTTGCCCCCAAAGTTAAAGCCACAGCTGCGCTGCAGGAGCAC
CGCCACAACCTCAGGACCTTGAGTTTACCAAGTTACCAAATGGCTTGGTGATTGCTTCTTTGAAAA
ACTATTCTCCTGTATCAAGAATTGGTTTGTTCATTAAAGCAGGCAGTAGATAGAGGACTTCAGCA
ATTTAGGAACCAACCATTTGCTGCGTCTTACATCCAGTCTGACGACAAAAGGAGCTTCATTCTTTTC
AAGATAACCCGTGGAATTGAAGCAGTTGGTTGGCAAATTAAGTGTGACCCGCAACCAAGGGAAAA
CATTGGCTTATACTGNGGAATGCCNCCGGGGTGATGGTTGATTNTAATGGGAGTCCTGGTTCAA
TGNCNCCNACANCNAAAATTTTTCTTNGGGAANAAACNTACCCTTTAACNTTACTTNAAAA
TTGAAAAAANTTGGGGCTTTAAAAACNGNAACNTTTTTTTTTNAAAAATTG

SEQ ID NO: 2553 ACCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAGGCAA
TTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCGTCTGGCTCTAATTCACAA
GTGCTCTTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCACTTCTCATGGGTGGCA
CTCAGTCTCTCTTCTCTCCAGCTGACTAAACTTTTTTCTGNACTTNATTTTTTTNTNNTCTTTTT
GGGGTTTTAAACTTTTTATTTGCACATTAATAAAATTTGTGCATTCCAATAATTAATAATCATTTGAA
CAAAAAAAAAAATGGCACTCTGATTAACTGCATTACAGCCCTGAGGACACCTTGGGCCAGCTTG
GTTTACTTTANATTTCACTGNCGTCCACCCCACTTTTTCCCCCACTINTTTCTTTTACAACANTGCA
NGTTTTTTNTTNCCTGCNAGCNAAAAATAANTAANACAANTGGGNAAAGGNANGCNCCGGCCTT
TNGTNNNNTAGTTTTTNGNGGAAAGGGGGGGGNAGCNTTAAACTGGTCCNCCCTTGGTTTTN
AAGNTNANCCGCNTAANAAATNAA

SEQ ID NO: 2554 CGAGGACAAGGCAGCTGGCAACGTTCCCTTCAAGACACAGAGGAGAAATCC
AGATCATTCTCAGCTCCCAGGCAGACCCACTCAGTGATCCTGATCAGATGAACGAGGACAAGCG
CCATTCACAGGGCACATTACCAAGTGACTACAGCAAGTATCTGGACTCCAGGCGTGCCCAAGATT
TTGTGCAGTGGTTGATGAATACCAAGAGGAACAGGAATAACATTGCCAAACGTCACGATGAATTT
GAGAGACATGCTGAAGGGACCTTTACCAGTGATGTAAGTTCTTATTTGGAAGGCCAAGCTGCCAA
GGAATTCATTGCTTGGCTGGTGAAAGGCCCGAGGAAGGCGAGATTTCCAGAAGAGGTGCGCCATT
GTTGAAAAAATTTGGCCCGCAGACATGTGATGGGTCTTTCTCTGATGAGATGAACACCATTCTTG
ATAATCTTTCCCGNCAGGGACTTTTTNAACTNGGTTGNTTTCANACCAAAATCACTGGCCAGGAAAT
TACTTTTTTACTTTTCAAGAACATTTTACACATTANCTNTTACCCCGNNGGGTTNTTTGNAAAGTT
AANANCNTGGAATTTAAAGGGGTNTTNTNGGGCCCTTTGTTNTTNTCCN

SEQ ID NO: 2555 GGTACGGATCACGCTTTCCCCAGGATGACCTCTGCCAGTATATCACATCAGAT
GACCTCACTCAGATGCTGGACAACCTAGGGCTTAAGTATGAGTGCTATGACCTTTTGTCCACCATG
GATATATCTGACTGCTTTATTGATGGTAATGAAAATGGAGACCTGCTTTGGGATTTTTTGACTGAA
ACCTGCAACTTTAATGCCACAGCACCAGCTGATCTCAGAGCAGAGCTTGGGAAAGATCTACAAGA
GCCTGAATTTAGTGCTAAGAAAGAGGGGAAGGTTCTTTTAATAATACTCTGAGTTTCATAGTGAT
GAGGCATAACTNTCAATCACAAAAGTATATTCAAAAATTATATTTTGAACAACTCGAATCACTCAT
TTATTTCCATATTAATAATCACAACTCATCCATAATGTAGATAANGCACTGTTTGGATATGAGATG
TAGCAAATTCAATTCATTATTGGACTTNCATTTGGAATCATATGGGAACTGNTGGCTTATCNCGNC
CCTCNTCCAGGTAGAGAGACCACAAGCGGCTCACATACCTTAGCTNNAAANTTGATGACGGATTT
TTTGGCTNTTGTAAAAAATTCATCCCTTTGNTGATNGCTGAATTNNTGAANCNTNTAAATCCTTCTT
TGNTTCTTTTGGGAGNTGCCNTACNA

SEQ ID NO: 2556 GGTACTTTGAAAATTGAAACTGGATCAGTGTGTGACGGGACTGTCAACTGAA
AAATGAATTTGAGTTGGGAAACCAAAACATGAACAGCAGCAGCAGTAGTGAAGCCACTGATGAG
GGACTCAGACAGGTATATCACTACAAATCCAATCCGCAGAATCCCAAAAGCCAACTGGATGATTC
CAGAAAGCACTGTGACTGATGCCGCGCCGNCACCCTCACCTCTCGTCATCCAGTAGTGAAGAAT
NATTCGAGTTGTTAGGCAATCCCAAAGTAGTTGCATTGCGATCTGGGACTGCTTTTGAACCTGCTC
CTGAAACTGCTNGTCCCACCATCATTACTCNNAATCNGAAACNGGCCCCCGGATATTGTGTCTGGA
AAGTGCCGAAGAAAAAGTAGATTATGGCTGGGAAAAAANGATGCATNCAACCCATAGACTGNGGG
AATGTGACACAGCAGANCAATGTAAACCTTGATACCTGCCCCGGCGCNNTTCAAAAGGCGGA
NTCCAACTCACTGNCNCCGTTCTANTGGNTCCNATCTTNGTACCAAACNTGNGNTATCATN
GTCTNTNCTGGTCTTNGGGGAAATTNGTNTCCCTTCCAATTCCCNANANACNAACCCGAANCA
TAAATGGTAANNCTNGGGGGCCTTANNGGNNCNACTTNATNTTNGNGGNCNNG

SEQ ID NO: 2557 GGTACAGTTGATCCCACTTTGGAATAAATGCCCAGAAGGTAATAAGCATTAT
CAGTGAGTGAGAGCTTAGGCACAAAATAAGTTCTCATTACAGAAAGTGGACAGAGATATGAAGCA
GTGAAACATATAGCTTTAAAACTGGAAATCATTCATGACATTTGTTTTCAAAGTAAACATTATCT

GCATTTCAAGAACTGTAATTTTCAAAAAGTAGAATCAGGCCTGATTAAGTAATATTTATGACTTACA
 GATAAAATTNCAAAAAATAAAATGAAAACCTCTCTGCCCTTGAAAAGAGATNGAAAACTATATTTT
 TTTCCCTGTAATGTCACAGAGATTTCAGTATTTTCATCCTTACCGTCGCTTAAAAAATGTTATTTT
 TAATTCGNCTTTCTGNTCTGCCACTTTTACATAGCAAAAACCGTGTTAATNTGGCCCTCTCTNCTG
 AGTGNAAGGATGTNTTATTTACNGNCATGAATGNNAAAAAACTTCAATTTTACCTCCATTGGGGTG
 NTATTTACCCACNTTAGGAAAAAAAAGATTANGAANCCGGTTTTTCNNTATCCNNTNGNACNTAC
 CTTCTANNAAAANTCCTTNCCCCGGCGGGCCGTTNGANGGGCGATTTCGNCCNCTGGNGGCGTTTTA
 ANNGNTCGCNNGGNTCTAANTTGGNTANTATGGCATTCTTNTCNTGNNGAA

SEQ ID NO: 2558 ACCACCACGCCAGCTGATTTTGTATTTTATGATAGAGATGGGATTTACCATG
 ACGGCCAAGCTGGTTTCAGATTCTGACCTCAAGTGATCTGCCACCTCGGCCTCCCAAACCTGCTA
 GGATTACAGGAGTTAGCCACCGTGCCAGCCTACTGTTGATATTTTCTTAAGGCCAAAGGGCTCTT
 NAAACAGCTTGTGGTGAATGCCACCTANTCAGGGATTACCCCTTAAGTGCAAGNGGGCANCCCTCT
 CTNCTGGGCAAAGTTCANAAATGCCATNCAANGAGCCAAGTCTTGGAATTGGAAACCCCAAGAA
 GTCTGCTTAGTGCTCTACACCTGTGGCTTANCTGCTATCTAAAAGTGAAGTCAANGTNCCTTTT
 ACTTTCCCTCTCTTTTCTCACACAANAAGGNAGTTTTACCCCNATCCACCCACAAGCTNGGAAA
 TGTGCTGANTCTTANCNTGANGCCNCATGTCCTAATGTTCCAACCCAAAGGCCCTANTGGTATNTN
 TGGATATTGTACTNGCTTTTAAGGGCCAAAGGTTTTANCTATCAAGNTGATGNAATCTTNCANGAN
 TTAGNTTATTTCTTCAAGGAGNGGTANTCTTCTNCTCAANGATGNGCTNGAAATNTNCAGAACT
 AAGGTTTGAAAGGGGNTGNNAANCTTTCCATTANCGTGTTNGTNNNAAGG

SEQ ID NO: 2559 CGAGGTACTTTTTTTTTTTTTTTTTTTTGGTTTATGCAACTTTATTGAAGAAA
 AATAAATCAATTACTAGCAGAGCTATTAGTTGATCACTCATCCATTGACAACCTNGCATCATTTATT
 CAGNGCTATATTAAACAGTGTATTGGAAGATANATTAATAAGCTCCAAGCCTCCTAACAATTT
 AAATGAAAATTACAAAATGTTTGAGACCTATTTTGAATACAAAGGGNGTTGACTTCCAATTC
 CATCTCTGTANAACAAGAACAGGTCATTCCTTTATTGACATGCATAAAAATACATCACATTTTCTG
 NTCTGCTGANGCTATAAAATCANTACCAATTNTCCAGCCACATCANTTATGAGCATAAAGCATATC
 ATGTGACCTCAAAATCTTTAACAGTGGAANGNTTAAACAAGAATGGATGCTGCTNAANAATNGNG
 TATCCCTTTGATGNGGCACCNGANATTCATNTCCCTCCCTGAAATGATTTTTTTCNNCATGGTANA
 ACATGGNGGAATGGGTTTAGCCTNTTACCAANTTAANGGGANACTTGGCCCTANACCNACGCC
 TTTTTTTTTTAAAAAATTGANNTTTGGGAACTNTNNTTGAAACTTTACNGNTTNAAAACNGTTTG
 CCAAGNGGGNAACTAATNTTAANAACCNNGGANNAGG

SEQ ID NO: 2560 ACTATACTCTGTATTCTCACAAATAGAGAAGACTAATATTGCAGACCTGGTG
 ACAGCTCTGATTGTCCTTTTGGTTGTATCCATTGTTAAAGAAATAAATCAGCGCTTCAAAGACAAA
 CTTCCAGTGCCCATTCGAATTCATTATGACCGTGATTGCAGCAGGTGATCCTACGGCTGT
 GACTTTAAAAACAGGTTTAAAGTGGCTGTGGTTGGGGACATGAATCCTGGATTTACAGCCCCCTATT
 ACACCTGACGTGGAGACTTTCCAAAACACCGTANGAGATTGCTTCGGCATCGCAATGGTTGCATT
 GCAGTGGCCTTTTCAAGTTGCCAGCGTCTATTCCCTCAAATACGATTATCCACTTGATGGCAATCA
 NGAGTTAATATCCTTGGGACTGGGTAACATATTCT

SEQ ID NO: 2561 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCAAACAAACGATGAAGTCTCA
 GGAGTAAAGTTGATACACAAGTAAATTTATTGGTAATGTTTTTGTGTGGTCTTTAAGCAGAGGG
 AAAATTAGTCTGATTATGGTGTATCCAGACTAAATAACTGATATTAAATGAAATTATCCTTAGG
 ATTTACAATCTTAGAGAAAACTTTTTCAATTTTTTTGAGTTACAAATTATCTTCACTTACATTTGAG
 AACAGTGAGTCACAGAGGGATTAAGTATNTTACTCAAGATCTTGCAAGTGTTGGTTTGAACCCAA
 TCTTTTCACTCTGCAGAACTCAAGAGTCACTCTNTTTGGAACTTTTAACTGATGTGGATCCTCT
 AATATGGGCTTNTCTATTATTNATTCCGGATTAGTCAGAAGTTTGCAAGCAGGCAGAATTCANTTTG
 CCAATACNGGATTTTTCNTCAGCCCCCGTCTTTTTTTTTTTTTTTTTTTTTTTTNTANGAANGGNT
 NACTTGATTTTTTTTCCCTAAGGGGGGGNANANAANGATTNCTTAATAAATNGNAATTACNTCCNC
 CATNTTTTTAAAAAGCCCNNTAAAAAAGTTTNTTTTNAANTTTTTGGGTCCAAATCAAANGTTGGN
 AAATTAACAAAAA

SEQ ID NO: 2562 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGCAGTTGATTCCAGTTCACGAGC
 GCTCTCGGTAGCTCAGGAAAGCGACATAGTCTCTAGCACTTAGTCCCTCTCCTACAATGCAAAGCA
 AAAAAGACTGTGGCTCCAGGACTNTCTGTGGGCGGAATCGGCCTAAGGAGTTGGTGCAATTATT
 TTGTTGCAAGGNAGGAAGCCAAAAAGCCTGCATGCAACAGACTGGCATGAATAAATGTATGTTTC
 CCCCTCCCTTCTGCAAGAAGGGAGCTGGTAATGGCAGGAGTTCTCCAGTGCAGACTCTTAAAGA
 GCGTGCAAGAACTAGAGACCCGACAGCGAAACAGGCCTTCCCTCACACACAGTTTCTCTTGCT
 GCAGCTTANAACCCCCGCGTCTGCCGGGCGGGCGC